

TN  
24  
C3  
A3  
no.49

CALIFORNIA. DEPT. OF NATURAL  
RESOURCES. DIVISION OF MINES.

BULLETIN.  
no.49



THE LIBRARY  
OF  
THE UNIVERSITY  
OF CALIFORNIA  
DAVIS

**CALIFORNIA  
MINES AND  
MINERALS**

**BULLETIN No. 49**

UNIVERSITY OF CALIFORNIA  
DAVIS

EX 20 1958

LIBRARY

RECEIVED  
LEWIS E. AUBURY  
STATE MINERALOGIST

. . . Issued by the . . .

**CALIFORNIA STATE  
MINING BUREAU . .**

**FERRY BUILDING  
San Francisco, Cal.**

under the direction of  
**LEWIS E. AUBURY  
State Mineralogist**

Printed at the State Printing Office, Sacramento  
W. W. SHANNON, Superintendent . . .



# CALIFORNIA MINES AND MINERALS

Compiled from Original Records of the State Mining Bureau.

THE mining interests of the State of California are so diversified, and the industry is extended over so wide an area, that it is difficult to describe the conditions which exist without using many pages of printed matter.

For this reason it has been considered proper, in this pamphlet, to give merely a record of results, which will show in plain figures what is being accomplished by the miners of the State. This record shows that some forty-two mineral substances are being exploited, the annual valuation of which is now \$46,776,085, and increasing as capital is invested and more mines are opened. The older mines, too, having been well developed and equipped, are increasing their annual output, and thus also proving their permanency and value with depth. For the past 20 years the total mineral output of California amounts to \$552,475,493.

The climatic conditions are favorable to mining operations throughout the State, and means of transportation have been so improved as to greatly lessen costs of supplies, etc. There are abundant opportunities for the safe and profitable investment of capital in the various branches of the industry, as numerous claims which have been located have never been properly developed or equipped, their owners lacking the necessary means.

The State Mining Bureau, maintained by State aid, provides numerous publications in the form of Bulletins or Reports, giving in detail the conditions existing in gold, copper, quicksilver, and all the various branches of mining. It also publishes maps of the counties which show the location of all mines, roads, streams, etc. The Bureau is in charge of a State Mineralogist, who has a corps of trained Field Assistants, and an office force as well. There is a fine technical library, and a very large museum showing specimens of all mineral products, suitably arranged for reference. There is also a well-equipped laboratory for the determination of minerals.

The Bureau publishes, among other things, an annual Statistical Bulletin showing by counties the output and value of all substances mined or quarried in California. From the latest bulletin of this character, covering the calendar year 1906, the figures and tables given in this pamphlet are taken, in the belief that they will give, perhaps, the best idea of what the mines of the State are producing and what the miners are accomplishing.

LIBRARY  
UNIVERSITY OF CALIFORNIA  
DAVIS



FERRY BUILDING, SAN FRANCISCO, ONE HALF THE UPPER FLOOR OF WHICH IS OCCUPIED BY THE STATE MINING BUREAU.  
(This building is constructed of Colusa Sandstone and the reconstructed tower is of reinforced concrete.)



## TOTAL MINERAL PRODUCT OF CALIFORNIA FOR 1906.

The following table shows the yield and value of mineral substances of California for 1906, as per returns received at the State Mining Bureau, San Francisco, in answer to inquiries sent to producers:

	QUANTITY.	VALUE.		QUANTITY.	VALUE.
Asbestos .....	70 tons	\$3,500	Magnesite (Crude) .....	4,032 tons	\$40,320
Asphalt .....	77,756 "	777,560	Marble .....	31,400 cu. ft.	75,800
Bituminous Rock .....	16,077 "	45,204	Mineral Paint .....	250 tons	1,720
Borax (Crude) .....	58,173 "	1,182,410	Mineral Water .....	1,585,690 gals.	478,186
Cement .....	1,286,000 bbls.	1,941,250	Natural Gas .....	168,175 M cu. ft.	109,489
Chrome .....	317 tons	2,859	Paving Blocks .....	4,203 M	173,432
Clays (Brick) .....	277,762 M	2,538,848	Petroleum .....	32,624,000 bbls.	9,238,020
Clays (Pottery) .....	167,267 tons	162,283	Platinum .....	91.46 oz.	1,647
Coal .....	24,850 "	61,600	Pyrites .....	46,689 tons	145,895
Copper .....	28,726,448 lbs.	5,522,712	Quicksilver .....	19,516 flasks	712,334
Fuller's Earth .....	440 tons	10,500	Rubble .....	489,208 tons	547,519
Gems .....		497,090	Salt .....	101,650 "	213,228
Glass Sand .....	9,750 "	13,375	Sandstone .....	182,076 cu. ft.	164,068
Gold .....		18,732,452	Serpentine .....	847 "	1,694
Granite .....	329,810 cu. ft.	344,083	Silver (commercial value) .....		817,830
Gypsum .....	21,000 tons	69,000	Slate .....	10,000 squares	100,000
Infusorial Earth .....	2,430 "	14,400	Soda .....	12,000 tons	18,000
Lead .....	338,718 lbs.	19,307	Tungsten .....		189,100
Lime .....	689,268 bbls.	763,060	Zinc .....	206,000 lbs.	12,566
Limestone .....	80,262 tons	162,827			
Macadam .....	1,066,164 tons	870,887			
Manganese .....	1 ton	30	Total value .....		\$46,776,085

In the previous year the total product was valued at \$43,069,225, so that the increase for 1906 is \$3,706,860. The most notable increases in value are in copper, gems, tungsten, and asphalt. For the first time zinc appears among the mineral products of the State.

The total value of the metallic substances (including precious metals) for 1906 was \$26,156,702, which includes gold, silver, pyrites, quicksilver, copper, lead, tungsten, zinc, platinum, and chrome. The silver is given in commercial value, or amount received for it by the producers. Metallic substances show an increase for the year of \$2,632,718, most of which is due to the great increase in amount and value of copper.

The total value of non-metallic substances was \$2,589,984, an increase of \$444,054 over 1905. These substances include borax, coal, mineral waters, salt, infusorial earth, gypsum, magnesite, manganese, mineral paint, fuller's earth, soda, tourmaline, and chrysoprase and other gems.

The total value of the hydrocarbons and gases was \$10,170,273, an increase of \$714,248. The hydrocarbons and gases include asphalt, bituminous rock, natural gas, and petroleum. The petroleum price is the average f. o. b. at wells or stations in each county. The number of barrels of oil produced was 32,624,000, valued at \$9,238,020, as against 34,275,701 barrels in 1905, valued at \$9,007,820. The increase in asphalt is very large for the year, it now being made in the process of refining the California heavy oils.

The total value of structural materials was \$7,859,126, a decrease of \$84,162 from the previous year. These materials include brick and pottery clays, Portland cement, lime and limestone, macadam, rubble and concrete rock, paving blocks, marble, granite, sandstone, serpentine, slate, and glass-sand.

The relative value of the principal minerals of the State is as follows: First, gold; second, petroleum; third, copper; fourth, clays and their products; fifth, cement; sixth, borax; seventh, silver.

All the asbestos produced in California in 1906 was from El Dorado and Placer counties. Asphalt was produced in the counties of Kern, Los Angeles, Santa Barbara, and Ventura. It was almost entirely derived from the refining of



petroleum. Bituminous rock was quarried in San Luis Obispo and Santa Cruz counties. Borax was produced in Inyo, San Bernardino, and Ventura counties. Brick clays were utilized in the counties of Alameda, Butte, Contra Costa, Fresno, Humboldt, Kern, Kings, Los Angeles, Marin, Mendocino, Merced, Orange, Riverside, Sacramento, San Bernardino, San Diego, San Francisco, San Joaquin, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Shasta, Sonoma, Tehama, Tulare, and Ventura. Clay for pottery came from Alameda, Amador, Calaveras, Kern, Los Angeles, Orange, Placer, Riverside, and Santa Clara counties. Portland cement was manufactured in Napa, San Bernardino, and Solano. Chrome was mined in Calaveras, Tuolumne, and Shasta counties. Coal was mined in Alameda, Amador, and Monterey counties. Copper was produced in the counties of Amador, Calaveras, Fresno, Inyo, Mariposa, Placer, San Bernardino, and Shasta. All the fuller's earth came from Kings and Kern counties. Glass sand was produced in Alameda, San Francisco, and Monterey counties. Gold was mined in thirty-five counties of the State and silver was produced in thirty-three counties. Granite was quarried for building purposes, curbing, etc., in the counties of Madera, Nevada, Placer, Riverside, Sacramento, San Bernardino, San Luis Obispo, San Diego, Tulare, and Tuolumne. Gypsum was derived from Los Angeles County, and lead from Inyo, Orange, and San Bernardino counties. Infusorial earth came from Los Angeles, Monterey, and Santa Barbara.

Lime was quarried and burned in the counties of Amador, Contra Costa, El Dorado, Kern, Los Angeles, Monterey, Placer, Riverside, San Bernardino, Santa Cruz, Shasta, and Tuolumne; and limestone was quarried for beet-sugar factories, fluxes, paving, etc., in Calaveras, Kern, San Bernardino, Santa Barbara, Santa Clara, Santa Cruz, and Shasta counties.

Marble was quarried in Inyo, San Bernardino, and Tuolumne counties. Macadam quarries are operated in the counties of Alameda, Contra Costa, Los Angeles, Riverside, Sacramento, San Benito, San Bernardino, San Francisco, San Mateo, Santa Cruz, Solano, and Sonoma. The mineral paint came from Stanislaus County. Manganese came only from Plumas County. Magnesite was mined in Alameda and Tulare counties.

Mineral waters were bottled and sold from springs in the counties of Butte, Colusa, Lake, Los Angeles, Mendocino,

Monterey, Napa, San Benito, Santa Barbara, Santa Clara, Siskiyou, Solano, Sonoma, Tehama, and Yuba. Natural gas was commercially utilized in Sacramento, San Joaquin, Santa Barbara, and Ventura counties. Paving blocks were quarried and made in Riverside, San Bernardino, Solano, and Sonoma counties. Petroleum was derived from the counties of Fresno, Kern, Los Angeles, Orange, Santa Barbara, Santa Clara, and Ventura. Platinum was found in small quantities in the following counties: Butte, Calaveras, Humboldt, Placer, Plumas, Sacramento, and Trinity. Alameda and Shasta counties furnished all the output of pyrites.

Quicksilver was produced in Lake, Napa, San Benito, San Luis Obispo, Santa Clara, Solano, Sonoma, and Trinity counties. Rubble was quarried in the counties of Alameda, Los Angeles, Marin, Napa, Placer, Riverside, San Bernardino, Sacramento, San Diego, Santa Barbara, San Mateo, Solano, Sonoma, and San Francisco.

Salt came from Alameda, Colusa, Los Angeles, Marin, San Diego, and San Mateo. Sandstone was quarried in Colusa, Los Angeles, San Luis Obispo, Santa Barbara, Siskiyou, Ventura, and Yolo counties. The serpentine came from Los Angeles County, and the slate from El Dorado. The gems (including hyacinth, beryl, topaz, kunzite, tourmaline, and chrysoprase) came from Riverside, Sonoma, Tulare, and San Diego counties.

### **TOTAL GOLD PRODUCT OF CALIFORNIA—1848-1906.**

While gold is still the leading mining product, its yield no longer puts the greatest gold-producing county in the first place. The copper of Shasta County, together with its other mineral products, gives it the leading place as a mineral-producing county. Gold is more widely distributed than any other substance thus far mined in California; 35 counties out of the 57 in the State showing a gold yield in 1906, and it is known to exist in several others.

The following table shows the total gold yield of California, by years, from the time mining commenced in 1848 to 1906, inclusive:

1848.....	\$245,301	1864.....	\$24,071,423	1880.....	\$20,030,761	1896.....	\$17,181,562
1849.....	10,151,360	1865.....	17,930,858	1881.....	19,223,155	1897.....	15,871,401
1850.....	41,273,106	1866.....	17,123,867	1882.....	17,146,416	1898.....	15,906,478
1851.....	75,938,232	1867.....	18,265,452	1883.....	24,316,873	1899.....	15,336,031
1852.....	<b>81,294,700</b>	1868.....	17,555,867	1884.....	13,600,000	1900.....	15,863,355
1853.....	67,613,487	1869.....	18,229,044	1885.....	12,661,044	1901.....	16,989,044
1854.....	69,433,931	1870.....	17,458,133	1886.....	14,716,506	1902.....	16,910,320
1855.....	55,485,395	1871.....	17,477,885	1887.....	13,588,614	1903.....	16,471,264
1856.....	57,509,411	1872.....	15,482,194	1888.....	12,750,000	1904.....	19,109,600
1857.....	43,628,172	1873.....	15,019,210	1889.....	11,212,913	1905.....	19,197,043
1858.....	46,591,140	1874.....	17,264,836	1890.....	12,309,793	1906.....	18,732,452
1859.....	45,846,599	1875.....	16,876,009	1891.....	12,728,869		
1860.....	44,095,163	1876.....	15,610,723	1892.....	12,571,900	Total..	\$1,452,785,763
1861.....	41,884,995	1877.....	16,501,268	1893.....	12,422,811		
1862.....	38,854,668	1878.....	18,839,141	1894.....	13,923,281		
1863.....	23,501,736	1879.....	19,626,654	1895.....	15,334,317		

### BANNER COUNTIES IN DIFFERENT MINERAL PRODUCTS—1906.

As far as the "banner" counties in the different mineral products are concerned, the following is the record for 1906, with the value of the material in which the county leads. It should be explained, however, that certain substances are put under the heading of "unapportioned," which includes product of single mines, etc., in counties, so as to conceal their identity. For this reason it is necessary to put under this heading, borax, soda, coal, Portland cement, fuller's earth, magnesite, lead, zinc, some gold and silver, and a few other substances formerly credited to certain

counties. This causes an apparent, but not real, falling off in output of Lassen, Los Angeles, Napa, Orange, Placer, San Diego, San Bernardino, Siskiyou, and a few other counties where these "unapportioned" substances occur. If credited to the exact county, where there is only a single operator, private business would be made public. Under these circumstances, the figures of value of output in some counties do not actually represent their relative rank, as some of the products may be placed under "unapportioned." Moreover, some counties lead in output of some substances placed in the "unapportioned" column, and these substances do not therefore appear after the name of the county, thus reducing the county total.

Alameda County leads in macadam (\$468,937) and salt (\$126,838); Butte in gold (\$3,016,747); Colusa in sandstone (\$101,802); El Dorado in slate (\$100,000); Humboldt in platinum (\$555); Inyo in lead (\$11,857); Kern in petroleum (\$3,765,200) and tungsten (\$183,600); Lake in mineral waters (\$160,000); Los Angeles in asphalt (\$259,200), brick clays (\$826,831), gypsum (\$69,000), rubble (\$176,559), and serpentine (\$1,694); Madera in granite (\$176,416); Placer in asbestos (\$2,500); Riverside in clay (\$59,712); San Benito in quicksilver (\$262,909); San Diego in gems (\$284,500); San Joaquin in natural gas (\$55,115); San Francisco in glass sand (\$10,500); Santa Cruz in bituminous rock (\$38,860) and lime (\$347,490); Santa Barbara in infusorial earth (\$13,800); Shasta in copper (\$4,338,121), pyrites (\$89,895), and silver (\$434,483); Sonoma in paving blocks (\$128,444); Stanislaus in mineral paint (\$1,720); Tuolumne in chrome (\$1,379) and marble (\$46,000). The unapportioned list includes borax, cement, coal, fuller's earth, some gold and silver, magnesite, lead, zinc, and soda; so none of these substances are considered in making up the leading products of the individual counties.

To show the wide distribution of mineral substances in California an analysis of the statistical table for 1906, published by the State Mining Bureau (Bulletin No. 47), proves that gold was mined in 35 counties; asphalt in 4; chrome in 3; brick clays in 27; pottery clay in 9; copper in 7; gems in 4; granite in 10; lead in 3; lime and limestone in 11; macadam in 12; marble in 3; mineral water in 14; natural gas in 4; paving blocks in 4; petroleum in 7; platinum in 7; quicksilver in 8; rubble in 13; salt in 6; sandstone in 7, and silver in 33. In certain instances other substances are mined or quarried in only one county.





MINERAL MUSEUM, CALIFORNIA STATE MINING BUREAU.

# QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1906.

## ASBESTOS.

	QUANTITY.	VALUE.
El Dorado County .....	20 tons	\$1,000
Placer County .....	50 "	2,500
Totals .....	70 "	\$3,500

## ASPHALT.

Kern County .....	23,136 tons	\$231,360
Los Angeles County .....	25,920 "	259,200
Santa Barbara County .....	25,000 "	250,000
Ventura County .....	3,700 "	37,000
Totals .....	77,756 "	\$777,560

## BITUMINOUS ROCK.

Santa Cruz County .....	13,544 tons	\$38,860
San Luis Obispo County .....	2,533 "	6,344
Totals .....	16,077 "	\$45,204

## BORAX.

Unapportioned .....	58.173 tons	\$1,182,410
---------------------	-------------	-------------

## CEMENT.

Unapportioned .....	1,286,000 bbls.	\$1,941,250
---------------------	-----------------	-------------

## CHROME.

	QUANTITY.	VALUE.
Calaveras County .....	40 tons	\$280
Shasta County .....	80 "	1,200
Tuolumne County .....	197 "	1,379
Totals .....	317 "	\$2,859

## CLAYS—BRICK.

(Includes Common, Pressed, and Fire.)

Alameda County .....	21,345 M	\$413,750
Butte County .....	130 "	1,300
Contra Costa County .....	23,267 "	169,022
Fresno County .....	8,000 "	64,000
Humboldt County .....	915 "	8,690
Kern County .....	4,275 "	34,200
Kings County .....	2,800 "	20,000
Los Angeles County .....	127,965 "	826,831
Marin County .....	23,900 "	199,300
Mendocino County .....	500 "	5,000
Merced County .....	650 "	6,000
Orange County .....	1,365 "	13,500
Riverside County .....	4,607 "	92,140
Sacramento County .....	12,000 "	108,000
San Bernardino County .....	1,800 "	13,500
San Diego County .....	3,950 "	34,900
San Francisco County .....	7,208 "	58,289
San Joaquin County .....	7,500 "	49,500



# **QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1906.**

## **CLAYS—BRICK—Continued.**

	QUANTITY.	VALUE.
San Luis Obispo County	300 M	\$2,400
San Mateo County	6,613 "	67,000
Santa Barbara County	200 "	1,600
Santa Clara County	23,397 "	183,676
Shasta County	4,400 "	22,000
Sonoma County	6,800 "	115,000
Tehama County	700 "	5,600
Tulare County	1,500 "	12,000
Ventura County	1,675 "	11,650
Totals	277,762 "	\$2,538,848

## **CLAYS—POTTERY.**

Alameda County	10,000 tons	\$10,000
Amador County	26,789 "	28,119
Calaveras County	50 "	50
Kern County	215 "	752
Los Angeles County	41,350 "	34,250
Orange County	7,740 "	12,900
Placer County	20,000 "	15,000
Riverside County	60,123 "	59,712
Santa Clara County	1,000 "	1,500
Totals	167,267 "	\$162,283

## **COAL.**

Unapportioned	24,850 tons	\$61,600
---------------	-------------	----------

## **COPPER.**

	QUANTITY.	VALUE.
Amador County	8,648 lbs.	\$1,669
Calaveras County	5,082,320 "	956,315
Fresno County	440,000 "	88,000
Inyo County	4,145 "	800
Placer County	200,000 "	38,600
San Bernardino County	514,031 "	99,207
Shasta County	22,477,304 "	4,338,121
Totals	28,726,448 "	\$5,522,712

## **FULLER'S EARTH.**

Unapportioned	440 tons	\$10,500
---------------	----------	----------

## **GEMS.**

Riverside County		\$2,500
San Diego County		284,500
Sonoma County		300
Tulare County		209,790
Total		\$497,090

## **GLASS SAND.**

Alameda County	500 tons	\$1,750
Monterey County	750 "	1,125
San Francisco County	8,500 "	10,500
Totals	9,750 "	\$13,375

# QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1906.

## GOLD.

	VALUE.
Amador County .....	\$2,260,376
Butte County .....	3,016,747
Calaveras County .....	1,644,234
Del Norte County .....	5,945
El Dorado County .....	431,746
Fresno County .....	8,493
Humboldt County .....	48,295
Inyo County .....	19,449
Kern County .....	806,117
Lassen and Los Angeles Counties (un- apportioned) .....	98,526
Madera County .....	22,390
Mariposa County .....	366,394
Mendocino County .....	19
Mono County .....	338,698
Monterey County .....	625
Nevada County .....	2,658,420
Orange and Placer Counties (unappor- tioned) .....	573,906
Plumas County .....	229,350
Riverside County .....	4,432
Sacramento County .....	986,624
San Bernardino County .....	354,830
San Diego and San Luis Obispo Coun- ties (unapportioned) .....	17,380
Santa Barbara County .....	250
Shasta County .....	819,144

## GOLD—Continued.

	VALUE.
Sierra County .....	\$409,366
Siskiyou and Stanislaus Counties (un- apportioned) .....	738,340
Trinity County .....	560,843
Tulare County .....	20
Tuolumne County .....	1,039,675
Ventura and Yuba Counties (unappor- tioned) .....	1,271,818
Total .....	\$18,732,452

## GRANITE.

	QUANTITY.	VALUE.
Madera County .....	65,472 cu. ft.	\$176,416
Nevada County .....	9,525 " "	9,300
Placer County .....	52,508 " "	66,030
Riverside County .....	141,200 " "	43,935
Sacramento County .....	10,905 " "	1,779
San Bernardino County .....	10,000 " "	7,173
San Diego County .....	9,500 " "	10,250
San Luis Obispo County .....	14,000 " "	10,500
Tulare County .....	7,000 " "	9,000
Tuolumne County .....	9,700 " "	9,700
Totals .....	329,810 " "	\$344,083

## GYPSUM.

Los Angeles County .....	21,000 tons	\$69,000
--------------------------	-------------	----------

# **QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1906.**

## **INFUSORIAL EARTH.**

	QUANTITY.	VALUE.
Los Angeles County .....	50 tons	\$200
Monterey County .....	80 "	400
Santa Barbara County .....	2,300 "	13,800
Totals .....	2,430 "	\$14,400

## **LEAD.**

Inyo County .....	208,018 lbs.	\$11,857
Orange and San Bernar- dino Counties (Unap.) .....	130,700 "	7,450
Totals .....	338,718 "	\$19,307

## **LIME.**

Amador County .....	1,000 bbls.	\$1,200
El Dorado County .....	19,217 "	2,138
Kern County .....	295,613 "	267,096
Los Angeles County .....	18,000 "	18,000
Monterey County .....	40,000 "	50,000
Placer County .....	11,699 "	11,950
Riverside County .....	14,000 "	20,000
San Bernardino County .....	20,910 "	17,146
Santa Cruz County .....	255,469 "	347,490
Shasta County .....	12,860 "	8,040
Tuolumne County .....	500 "	1,000
Totals .....	689,268 "	\$763,060

## **LIMESTONE.**

	QUANTITY.	VALUE.
Calaveras County .....	3,994 tons	\$7,635
San Bernardino County .....	19,837 "	35,990
Santa Barbara County .....	8,000 "	16,000
Santa Cruz County .....	11,431 "	55,242
Santa Clara County .....	10,000 "	15,000
Shasta County .....	27,000 "	32,960
Totals .....	80,262 "	\$162,827

## **MACADAM.**

Alameda County .....	481,283 tons	\$468,937
Contra Costa County .....	100,250 "	75,025
Riverside County .....	24,149 "	24,978
Sacramento County .....	49,786 "	17,426
San Benito County .....	46,000 "	23,000
San Bernardino County .....	2,300 "	1,825
San Francisco County .....	49,000 "	54,250
San Mateo County .....	36,523 "	36,823
Santa Barbara County .....	272 "	272
Santa Cruz County .....	3,870 "	3,500
Solano County .....	233,951 "	135,077
Sonoma County .....	38,780 "	29,774
Totals .....	1,066,164 "	\$870,887

## **MAGNESITE.**

Unapportioned .....	4,032 tons	\$40,320
---------------------	------------	----------

# QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1906.

## MANGANESE.

	QUANTITY	VALUE.
Plumas County	1 ton	\$30

## MARBLE.

Inyo County	1,200 cu. ft.	\$4,800
San Bernardino County	7,200 " "	25,000
Tuolumne County	23,000 " "	46,000

Totals 31,400 " " \$75,800

## MINERAL PAINT.

Stanislaus County	250 tons	\$1,720
-------------------	----------	---------

## MINERAL WATER.

Butte County	19,500 gals.	\$1,950
Lake County	365,000 "	160,000
Los Angeles County	85,465 "	5,128
Mendocino County	40,000 "	9,800
Monterey County	24,000 "	12,000
Napa County	84,000 "	90,500
San Benito County	2,600 "	3,120
Santa Barbara County	13,750 "	10,450
Santa Clara County	5,000 "	1,250
Solano County	4,000 "	4,000
Sonoma County	10,000 "	4,000
Tehama County	8,000 "	4,000
Yuba County	2,000 "	800
Unapportioned	922,375 "	171,188

Totals 1,585,690 " \$478,186

## NATURAL GAS.

	QUANTITY.	VALUE.
Sacramento County	60,225 M cu. ft.	\$52,874
San Joaquin County	103,450 " " "	55,115
Santa Barbara County	1,000 " " "	500
Ventura County	3,500 " " "	1,000
Totals	168,175 " " "	\$109,489

## PAVING BLOCKS.

Riverside County	600 M	\$24,000
San Bernardino County	400 "	16,000
Solano County	132 "	4,988
Sonoma County	3,071 "	128,444
Totals	4,203 "	\$173,432

## PETROLEUM.

Fresno County	8,402,000 blls.	\$1,974,470
Kern County	13,826,000 "	3,765,200
Los Angeles County	2,814,000 "	908,800
Orange County	2,388,000 "	1,194,000
Santa Barbara Co.	4,876,000 "	1,237,250
Santa Clara County	7,000 "	2,800
Ventura County	311,000 "	155,500
Totals	32,624,000 "	\$9,238,020

# QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1906.

## PLATINUM.

	QUANTITY.	VALUE.
Butte County -----	26.4 oz.	\$475
Calaveras County ----	13.9 "	250
Humboldt County ----	30.8 "	555
Placer County -----	0.66 "	12
Plumas County -----	1.4 "	25
Sacramento County --	11.1 "	200
Trinity County -----	7.2 "	130
Total -----	91.46 "	\$1,647

## PYRITES.

Alameda County -----	14,000 tons	\$56,000
Shasta County -----	32,689 "	89,895
Total -----	46,689 "	\$145,895

## QUICKSILVER.

Lake County -----	1,066 flasks.	\$38,909
Napa County -----	2,380 "	86,870
San Benito County ----	7,203 "	262,909
San Luis Obispo Co. ---	3,511 "	128,152
Santa Clara County ---	2,592 "	94,608
Solano County -----	528 "	19,272
Sonoma County -----	2,070 "	75,555
Trinity County -----	166 "	6,059
Totals -----	19,516 "	\$712,334

## RUBBLE.

	QUANTITY.	VALUE.
Alameda County -----	54,468 tons	\$27,545
Los Angeles County ----	60,950 "	176,559
Marin County -----	54,000 "	53,000
Napa County -----	2,777 "	2,777
Placer County -----	5,300 "	5,100
Riverside County -----	80,940 "	78,725
Sacramento County ----	5,190 "	715
San Bernardino County -	23,849 "	13,478
San Diego County -----	31,274 "	49,738
San Francisco County -	58,000 "	52,000
San Mateo County -----	100,000 "	75,000
Santa Barbara County -	8,700 "	9,460
Solano County -----	3,760 "	3,422
Totals -----	489,208 "	\$547,519

## SALT.

Alameda County -----	68,450 tons	\$126,838
Colusa County -----	150 "	170
Los Angeles County ----	12,000 "	36,000
Marin County -----	150 "	300
San Mateo County -----	14,900 "	44,920
San Diego County -----	6,000 "	5,000
Totals -----	101,650 "	\$213,228

## SODA.

Unapportioned -----	12,000 tons	\$18,000
---------------------	-------------	----------

# QUANTITY AND VALUE OF MINERAL PRODUCTS OF CALIFORNIA—1906.

## SANDSTONE.

	QUANTITY.	VALUE.
Colusa County.....	82,821 cu. ft.	\$101,802
Los Angeles County...	19,080 " "	9,540
San Luis Obispo County	40,000 " "	25,000
Santa Barbara County...	36,195 " "	25,230
Siskiyou County.....	2,500 " "	1,500
Ventura County.....	1,320 " "	792
Yolo County.....	160 " "	204
Totals.....	182,076 " "	\$164,068

## SILVER.

	COM. VALUE.
Amador County.....	\$14,579
Butte County.....	10,853
Calaveras County.....	74,099
Del Norte County.....	33
El Dorado County.....	2,690
Fresno County.....	83
Humboldt County.....	240
Inyo County.....	13,358
Kern County.....	129,503
Lassen and Los Angeles Counties (unapportioned).....	1,296
Madera County.....	508
Mariposa County.....	3,377
Mono County.....	13,151
Monterey County.....	3
Nevada County.....	24,219
Orange and Placer Counties (unapportioned).....	33,334

## SILVER—Continued.

	COM. VALUE.
Plumas County.....	\$1,055
Riverside County.....	251
Sacramento County.....	3,640
San Bernardino County.....	33,765
San Diego and San Luis Obispo Counties (unapportioned).....	641
Santa Barbara County.....	2
Shasta County.....	434,483
Sierra County.....	2,518
Siskiyou and Stanislaus Counties (unapportioned).....	5,429
Trinity County.....	2,981
Tuolumne County.....	8,476
Yuba and Ventura Counties (unapportioned).....	3,263
Total.....	\$817,830

## SERPENTINE.

	QUANTITY.	VALUE.
Los Angeles County.....	847 cu. ft.	\$1,694

## SLATE.

El Dorado County.....	10,000 squares	\$100,000
-----------------------	----------------	-----------

## TUNGSTEN.

Kern County.....		\$183,600
San Bernardino County.....		5,500
Total.....		\$189,100

## ZINC.

Unapportioned.....	206,000 lbs.	\$12,566
--------------------	--------------	----------



# ASSESSED VALUATION, AREA, AND POPULATION OF CALIFORNIA. \*

	Assessed Valuation 1907	Area, in Square Miles.	Population 1900.
Alameda County .....	\$176,817,591	840	130,197
Alpine County .....	507,652	575	509
Amador County .....	5,890,793	563	11,116
Butte County .....	19,694,361	1,764	17,117
Calaveras County .....	6,493,727	990	11,200
Colusa County .....	13,073,699	1,080	7,364
Contra Costa County .....	27,122,288	750	18,046
Del Norte County .....	3,603,490	1,546	2,408
El Dorado County .....	5,722,655	1,891	8,986
Fresno County .....	46,923,383	5,940	37,862
Glenn County .....	11,949,561	1,400	5,150
Humboldt County .....	28,242,910	3,507	27,104
Inyo County .....	3,501,476	10,224	4,377
Kern County .....	30,149,898	8,159	16,480
Kings County .....	9,045,504	1,257	9,871
Lake County .....	3,657,340	1,332	6,017
Lassen County .....	5,841,333	4,750	4,511
Los Angeles County .....	384,051,746	3,957	170,298
Madera County .....	8,458,229	2,140	6,364
Marin County .....	16,515,214	516	15,702
Mariposa County .....	2,342,192	1,580	4,720
Mendocino County .....	14,571,522	3,460	20,465
Merced County .....	17,699,940	1,750	9,215
Modoc County .....	4,926,148	4,097	5,076
Mono County .....	1,225,044	2,796	2,167
Monterey County .....	23,217,230	3,450	19,380
Napa County .....	14,997,460	800	16,451
Nevada County .....	7,806,352	953	17,789
Orange County .....	18,411,915	780	19,696

	Assessed Valuation 1907.	Area, in Square Miles	Population 1900.
Placer County .....	\$10,962,045	1,484	15,786
Plumas County .....	4,640,738	2,361	4,657
Riverside County .....	21,029,475	7,008	17,897
Sacramento County .....	54,857,086	1,007	45,915
San Benito County .....	7,046,787	1,476	6,633
San Bernardino County .....	30,352,957	20,055	27,929
San Diego County .....	30,356,897	8,400	35,090
San Francisco County .....	429,866,609	42	342,782
San Joaquin County .....	42,500,778	1,370	35,452
San Luis Obispo County .....	16,398,462	3,500	16,637
San Mateo County .....	24,201,540	470	12,094
Santa Barbara County .....	24,086,970	2,450	18,934
Santa Clara County .....	60,393,432	1,355	60,216
Santa Cruz County .....	15,210,096	425	21,512
Shasta County .....	14,544,355	4,050	17,318
Sierra County .....	2,308,890	910	4,017
Siskiyou County .....	15,943,260	6,078	16,962
Solano County .....	20,322,997	911	24,143
Sonoma County .....	33,877,918	1,540	38,480
Stanislaus County .....	16,081,091	1,486	9,550
Sutter County .....	7,157,242	611	5,886
Tehama County .....	13,207,073	3,200	10,996
Trinity County .....	2,740,656	3,276	4,383
Tulare County .....	23,851,394	4,935	18,375
Tuolumne County .....	7,762,427	2,282	11,166
Ventura County .....	11,921,277	1,850	14,367
Yolo County .....	17,665,533	1,017	13,618
Yuba County .....	6,912,397	625	8,620
Totals .....	\$1,878,661,035	156,931	1,485,053

\* Report of the State Controller.

# **COUNTY MINERAL PRODUCTS AND VALUE—1906.**

## **ALAMEDA COUNTY.**

	QUANTITY.	VALUE.
Brick .....	21,345 M	\$413,750
Clay .....	10,000 tons	10,000
Glass Sand .....	500 "	1,750
Macadam .....	481,283 "	468,937
Pyrites .....	14,000 "	56,000
Rubble .....	54,468 "	27,545
Salt .....	68,450 "	126,838

\$1,104,820

## **AMADOR COUNTY.**

Clay .....	26,789 tons	\$28,119
Copper .....	8,648 lbs.	1,669
Gold .....		2,260.376
Lime .....	1,000 bbls.	1,200
Silver .....		14,579

\$2,305,943

## **BUTTE COUNTY.**

Brick .....	130 M	\$1,300
Gold .....		3,016,747
Mineral Water .....	19,500 gals.	1,950
Platinum .....	26.4 oz.	475
Silver .....		10,853

\$3,031,325

## **CALAVERAS COUNTY.**

	QUANTITY.	VALUE.
Chrome .....	40 tons	\$280
Clay .....	50 "	50
Copper .....	5,082,320 lbs.	956,315
Gold .....		1,644,234
Limestone .....	3,994 tons	7,635
Platinum .....	13.9 oz.	250
Silver .....		74,099

\$2,682,863

## **COLUSA COUNTY.**

Salt .....	150 tons	170
Sandstone .....	82,821 cu. ft.	101,802

\$101,972

## **CONTRA COSTA COUNTY.**

Brick .....	23,267 M	\$169,022
Macadam .....	100,250 tons	75,025

\$244,047

## **DEL NORTE COUNTY.**

Gold .....		\$5,945
Silver .....		33

\$5,978

## COUNTY MINERAL PRODUCTS AND VALUE—1906.

### EL DORADO COUNTY.

	QUANTITY.	VALUE.
Asbestos .....	20 tons	\$1,000
Gold .....		431,746
Lime .....	19,217 bbls.	21,138
Silver .....		2,690
Slate .....	10,000 squares	100,000
		<hr/> \$556,574

### FRESNO COUNTY.

Brick .....	8,000 M	\$64,000
Copper .....	440,000 lbs.	88,000
Gold .....		8,493
Petroleum .....	8,402,000 bbls.	1,974,470
Silver .....		83
		<hr/> \$2,135,046

### HUMBOLDT COUNTY.

Brick .....	915 M	\$8,690
Gold .....		48,295
Platinum .....	30.8 oz.	555
Silver .....		240
		<hr/> \$57,780

### INYO COUNTY.

Copper .....	4,145 lbs.	\$800
Gold .....		19,449
Lead .....	208,018 lbs.	11,857
Marble .....	1,200 cu. ft.	4,800
Silver .....		13,358
		<hr/> \$50,264

### KERN COUNTY.

	QUANTITY.	VALUE.
Asphalt .....	23,136 tons	\$231,360
Brick .....	4,275 M	34,200
Clay .....	215 tons	752
Gold .....		806,117
Lime .....	295,613 bbls.	267,096
Petroleum .....	13,826,000 bbls.	3,765,200
Silver .....		129,503
Tungsten .....		183,600
		<hr/> \$5,417,828

### KINGS COUNTY.

Brick .....	2,800 M	\$20,000
-------------	---------	----------

### LAKE COUNTY.

Mineral Water .....	365,000 gals.	\$160,000
Quicksilver .....	1,066 flasks	38,909
		<hr/> \$198,909

### LOS ANGELES COUNTY.

Asphalt .....	25,920 tons	\$259,200
Brick .....	127,965 M	826,831
Clay .....	41,350 tons	34,250
Gypsum .....	21,000 "	69,000
Infusorial Earth .....	50 "	200
Lime .....	18,000 bbls.	18,000
Mineral Water .....	85,465 gals.	5,128
Petroleum .....	2,814,000 bbls.	908,800

# COUNTY MINERAL PRODUCTS AND VALUE—1906.

LOS ANGELES COUNTY—Cont'd.		
	QUANTITY.	VALUE.
Rubble .....	60,950 tons	\$176,559
Salt .....	12,000 "	36,000
Sandstone .....	19,080 cu. ft.	9,540
Serpentine .....	847 "	1,694
		<hr/>
		\$2,345,202

MADERA COUNTY.		
Gold .....		\$22,390
Granite .....	65,472 cu. ft.	176,416
Silver .....		508
		<hr/>
		\$199,314

MARIN COUNTY.		
Brick .....	23,900 M	\$199,300
Rubble .....	54,000 tons	53,000
Salt .....	150 "	300
		<hr/>
		\$252,600

MARIPOSA COUNTY.		
Gold .....		\$366,394
Silver .....		3,377
		<hr/>
		\$369,771

MENDOCINO COUNTY.		
	QUANTITY	VALUE.
Brick .....	500 M	\$5,000
Gold .....		19
Mineral Water .....	40,000 gals.	9,800
		<hr/>
		\$14,819

MERCED COUNTY.		
Brick .....	650 M	\$6,000

MONO COUNTY.		
Gold .....		\$338,698
Silver .....		13,151
		<hr/>
		\$351,849

MONTEREY COUNTY.		
Glass Sand .....	750 tons	\$1,125
Gold .....		625
Infusorial Earth .....	80 tons	400
Lime .....	40,000 bbls.	50,000
Mineral Water .....	24,000 gals.	12,000
Silver .....		3
		<hr/>
		\$64,153

NAPA COUNTY.		
Mineral Water .....	84,000 gals.	\$90,500
Quicksilver .....	2,380 flasks	86,870
Rubble .....	2,777 tons	2,777
		<hr/>
		\$180,147

# **COUNTY MINERAL PRODUCTS AND VALUE—1906.**

## **NEVADA COUNTY.**

	QUANTITY.	VALUE.
Gold .....		\$2,658,420
Granite .....	9,525 cu. ft.	9,300
Silver .....		24,219
		<hr/>
		\$2,691,939

## **ORANGE COUNTY.**

Brick .....	1,365 M	\$13,500
Clay .....	7,740 tons	12,900
Petroleum .....	2,388,000 bbls.	1,194,000
		<hr/>
		\$1,220,400

## **PLACER COUNTY.**

Asbestos .....	50 tons	\$2,500
Clay .....	20,000 "	15,000
Copper .....	200,000 lbs.	38,600
Granite .....	52,508 cu. ft.	66,030
Lime .....	11,699 bbls.	11,950
Platinum .....	0.660 oz.	12
Rubble .....	5,300 tons	5,100
		<hr/>
		\$139,192

## **PLUMAS COUNTY.**

Gold .....		\$229,350
Manganese .....	1 ton	30

## **PLUMAS COUNTY—Cont'd.**

	QUANTITY.	VALUE.
Platinum .....	1.4 ozs.	\$25
Silver .....		1,055
		<hr/>
		\$230,460

## **RIVERSIDE COUNTY.**

Brick .....	4,607 M	\$92,140
Clay .....	60,123 tons	59,712
Gems .....		2,500
Gold .....		4,432
Granite .....	141,200 cu. ft.	43,935
Lime .....	14,000 bbls.	20,000
Macadam .....	24,149 tons	24,978
Paving Blocks .....	600 M	24,000
Rubble .....	80,940 tons	78,725
Silver .....		251
		<hr/>
		\$350,673

## **SACRAMENTO COUNTY.**

Brick .....	12,000 M	\$108,000
Gold .....		986,624
Granite .....	10,905 cu. ft.	1,779
Macadam .....	49,786 tons	17,426
Natural Gas .....	60,225 M cu. ft.	52,874
Platinum .....	11.1 ozs.	200
Rubble .....	5,190 tons	715
Silver .....		3,640
		<hr/>
		\$1,171,258

# **COUNTY MINERAL PRODUCTS AND VALUE—1906.**

## **SAN BENITO COUNTY.**

	QUANTITY.	VALUE
Macadam .....	46,000 tons	\$23,000
Mineral Water .....	2,600 gals.	3,120
Quicksilver .....	7,203 flasks	262,909
		<hr/>
		\$289,029

## **SAN BERNARDINO COUNTY.**

Brick .....	1,800 M	\$13,500
Copper .....	514,031 lbs.	99,207
Gold .....		354,830
Granite .....	10,000 cu. ft.	7,173
Lime .....	20,910 bbls.	17,146
Limestone .....	19,837 tons	35,990
Macadam .....	2,300 tons	1,825
Marble .....	7,200 cu. ft.	25,000
Paving Blocks .....	400 M	16,000
Rubble .....	23,849 tons	13,478
Silver .....		33,765
Tungsten .....	10 tons	5,500
		<hr/>
		\$623,414

## **SAN DIEGO COUNTY.**

Brick .....	3,950 M	\$34,900
Gems .....		284,500
Granite .....	9,500 tons	10,250

## **SAN DIEGO COUNTY—Cont'd.**

	QUANTITY.	VALUE.
Rubble .....	31,274 "	\$49,738
Salt .....	6,000 "	5,000
		<hr/>
		\$384,388

## **SAN FRANCISCO COUNTY.**

Brick .....	7,208 M	\$58,289
Glass Sand .....	8,500 tons	10,500
Macadam .....	49,000 "	54,250
Rubble .....	58,000 "	52,000
		<hr/>
		\$175,039

## **SAN JOAQUIN COUNTY.**

Brick .....	7,500 M	\$49,500
Natural Gas .....	103,450 M cu. ft.	55,115
		<hr/>
		\$104,615

## **SAN LUIS OBISPO COUNTY.**

Bituminous Rock .....	2,533 tons	\$6,344
Brick .....	300 M	2,400
Granite .....	14,000 cu. ft.	10,500
Quicksilver .....	3,511 flasks	128,152
Sandstone .....	40,000 cu. ft.	25,000
		<hr/>
		\$172,396



# **COUNTY MINERAL PRODUCTS AND VALUE—1906.**

## **SAN MATEO COUNTY.**

	QUANTITY.	VALUE.
Brick .....	6,613 M	\$67,000
Macadam .....	36,523 tons	36,823
Rubble .....	100,000 "	75,000
Salt .....	14,900 "	44,920

**\$223,743**

## **SANTA BARBARA COUNTY.**

Asphalt .....	25,000 tons	\$250,000
Brick .....	200 M	1,600
Gold .....		250
Infusorial Earth .....	2,300 tons	13,800
Limestone .....	8,000 "	16,000
Mac dam .....	272 "	272
Mineral Water .....	13,750 gals.	10,450
Natural Gas .....	1,000 M cu. ft.	500
Petroleum .....	4,876,000 bbls.	1,237,250
Rubble .....	8,700 tons	9,460
Sandstone .....	36,195 cu. ft.	25,230
Silver .....		2

**\$1,564,814**

## **SANTA CLARA COUNTY.**

Brick .....	23,397 M	\$183,676
Clay .....	1,000 tons	1,500
Limetone .....	10,000 "	15,000
Mineral Water .....	5,000 gals.	1,250

## **SANTA CLARA COUNTY—Cont'd.**

	QUANTITY.	VALUE.
Petroleum .....	7,000 bbls.	\$2,800
Quicksilver .....	2,592 flasks	94,608

**\$298,834**

## **SANTA CRUZ COUNTY.**

Bituminous Rock .....	13,544 tons	\$38,860
Lime .....	255,469 bbls.	347,490
Limestone .....	11,431 tons	55,242
Macadam .....	3,870 tons	3,500

**\$445,092**

## **SHASTA COUNTY.**

Brick .....	4,400 M	\$22,000
Chrome .....	80 tons	1,200
Copper .....	22,477,304 lbs.	4,338,121
Gold .....		819,144
Lime .....	12,860 bbls.	8,040
Limestone .....	27,000 tons	32,960
Pyrites .....	32,689 "	89,895
Silver .....		434,483

**\$5,745,843**

## **SIERRA COUNTY.**

Gold .....		\$409,366
Silver .....		2,518

**\$411,884**

# **COUNTY MINERAL PRODUCTS AND VALUE—1906.**

## **SISKIYOU COUNTY.**

	QUANTITY.	VALUE.
Sandstone .....	2,500 cu. ft.	\$1,500

## **SOLANO COUNTY.**

Macadam .....	233,951 tons	\$135,077
Mineral Water .....	4,000 gals.	4,000
Paving Blocks .....	132 M	4,988
Quicksilver .....	528 flasks	19,272
Rubble .....	3,760 tons	3,422

---

\$166,759

## **SONOMA COUNTY.**

Brick .....	6,800 M	\$115,000
Gems .....		300
Macadam .....	38,780 tons	29,774
Mineral Water .....	10,000 gals.	4,000
Paving Blocks .....	3,071 M	128,444
Quicksilver .....	2,070 flasks	75,555

---

\$353,073

## **STANISLAUS COUNTY.**

Mineral Paint .....	250 tons	\$1,720
---------------------	----------	---------

---

\$1,720

## **TEHAMA COUNTY.**

	QUANTITY.	VALUE.
Brick .....	700 M	\$5,600
Mineral Water .....	8,000 gals.	4,000

---

\$9,600

## **TRINITY COUNTY.**

Gold .....		\$560,843
Platinum .....	7.2 ozs.	130
Quicksilver .....	166 flasks	6,059
Silver .....		2,981

---

\$570,013

## **TULARE COUNTY.**

Brick .....	1,500 M	\$12,000
Gems .....		209,790
Gold .....		20
Granite .....	7,000 cu. ft.	9,000

---

\$230,810

## **TUOLUMNE COUNTY.**

Chrome .....	197 tons	\$1,379
Gold .....		1,039,675
Granite .....	9,700 cu. ft.	9,700
Lime .....	500 bbls.	1,000
Marble .....	23,000 cu. ft.	46,000
Silver .....		8,476

---

\$1,106,230

# **COUNTY MINERAL PRODUCTS AND VALUE—1906.**

## **VENTURA COUNTY.**

	QUANTITY.	VALUE.
Asphalt .....	3,700 tons	\$37,000
Brick .....	1,675 M	11,650
Natural Gas .....	3,500 M cu. ft.	1,000
Petroleum .....	311,000 bbls.	155,500
Sandstone .....	1,320 cu. ft.	792
		<hr/> \$205,942

## **YOLO COUNTY.**

Sandstone .....	160 cu. ft.	\$204
-----------------	-------------	-------

## **YUBA COUNTY.**

Mineral Water .....	2,000 gals.	\$800
---------------------	-------------	-------

## **UNAPPORTIONED.**

	QUANTITY.	VALUE.
Borax .....	58,173 tons	\$1,182,410
Cement .....	1,286,000 bbls.	1,941,250
Coal .....	24,850 tons	61,600
Fuller's Earth .....	440 tons	10,500
Gold .....		2,699,970
Lead .....	130,700 lbs.	7,450
Magnesite .....	4,032 tons	40,320
Mineral Water .....	922,375 gals.	171,188
Silver .....		43,963
Soda .....	12,000 tons	18,000
Zinc .....	206,000 lbs.	12,566
		<hr/> \$6,189,217

## VALUE OF MINERAL PRODUCTS BY COUNTIES FOR THIRTEEN YEARS.

The State Mining Bureau began, in 1904, to keep a systematic record of annual output of mineral products by county and value for the State of California. The year 1906 completes the thirteenth year of these records, and in order to put them in form for permanent reference a series of tables have been compiled showing what each county has yielded for this stated period. This information has already been published in the annual statistical sheets issued by the Bureau, but no attempt has heretofore been made to place in one table the record of any individual county so far as value of mineral products is concerned. These tables will be kept up in the future as fast as the annual records become available.

It must be, however, borne in mind that in the case of some counties the totals given do not embrace the entire value given for the period, for the reason that some of the products of these counties are grouped under the heading of "Unapportioned," to conceal products of single mines in said counties, or because it has become necessary to group the values of one or more counties when there was only one producer in one of the counties. For example, cement is placed under "Unapportioned" for the reason that while there are four producers, there is only one in each county, and the publication of output and value under the county name would make public the operations of each of the companies in those counties, to which they naturally object, since all replies to circulars of inquiry are considered strictly confidential.

The figures of value of the year do not therefore appear in the respective counties where the companies operated, but in "Unapportioned," so those counties where there are cement plants are not fully credited with what they actually yielded. The same thing is true of borax, coal, and some other substances, there being only one or two operators in each of the counties where these substances are produced. During these thirteen years the sum of \$18,787,212 has been placed under the heading "Unapportioned," and therefore the counties where these single operations are carried on lost credit for the respective amounts which make up the large total under that heading.

The tabular statement by counties for thirteen years is as follows:

# VALUE OF MINERAL PRODUCTS BY COUNTIES FOR THIRTEEN YEARS.

## ALPINE COUNTY.

1894	-----
1895	-----
1896	\$400 00
1897	-----
1898	-----
1899	-----
1900	-----
1901	27,747 00
1902	14,129 00
1903	2,847 00
1904	2,972 00
1905	575 00
1906	-----
\$50,670 00	

## ALAMEDA COUNTY.

1894	\$242,050 00
1895	274,647 00
1896	230,630 00
1897	303,330 00
1898	443,759 00
1899	508,799 00
1900	639,771 00
1901	786,366 00
1902	666,838 00
1903	530,207 00
1904	514,413 00
1905	662,687 00
1906	1,104,820 00
\$6,908,317 00	

## AMADOR COUNTY.

1894	\$1,394,042 81
1895	1,443,504 40
1896	1,593,021 02
1897	1,368,770 00
1898	1,849,846 00
1899	1,593,720 00
1900	1,479,009 00
1901	1,888,191 00
1902	1,679,113 00
1903	1,639,819 00
1904	2,085,806 00
1905	2,490,755 00
1906	2,305,943 00
\$22,811,540 23	

## BUTTE COUNTY.

1894	\$473,672 65
1895	706,196 38
1896	755,480 88
1897	680,010 00
1898	529,225 00
1899	504,795 00
1900	500,786 00
1901	879,767 00
1902	926,251 00
1903	1,581,325 00
1904	1,941,386 00
1905	2,621,104 00
1906	3,031,325 00
\$15,131,323 91	

## CALAVERAS COUNTY.

1894	\$2,192,029 47
1895	1,734,918 14
1896	1,555,888 85
1897	1,444,006 00
1898	1,024,507 00
1899	1,303,188 00
1900	1,905,856 00
1901	2,355,372 00
1902	2,371,013 00
1903	2,270,668 00
1904	2,275,554 00
1905	2,415,627 00
1906	2,682,863 00
\$25,531,490 46	

## COLUSA COUNTY.

1894	\$7,500 00
1895	440 00
1896	14,584 00
1897	3,290 00
1898	1,093 00
1899	1,420 00
1900	13,930 00
1901	115,107 00
1902	194,500 00
1903	420,468 00
1904	347,807 00
1905	289,454 00
1906	101,972 00
\$1,511,565 00	

## CONTRA COSTA COUNTY.

1894	\$94,000 00
1895	139,655 00
1896	138,109 00
1897	106,380 00
1898	141,440 00
1899	135,113 00
1900	146,900 00
1901	101,900 00
1902	55,141 00
1903	62,500 00
1904	129,914 00
1905	197,493 00
1906	244,047 00
\$1,692,592 00	

## DEL NORTE COUNTY.

1894	\$8,000 00
1895	8,250 00
1896	24,150 00
1897	16,710 00
1898	9,057 00
1899	4,450 00
1900	3,483 00
1901	10,612 00
1902	5,450 00
1903	7,183 00
1904	7,417 00
1905	10,612 00
1906	5,978 00
\$121,352 00	

# VALUE OF MINERAL PRODUCTS BY COUNTIES FOR THIRTEEN YEARS.

## EL DORADO COUNTY.

1894	....	\$386,763	88
1895	....	738,498	99
1896	....	819,481	22
1897	....	685,312	00
1898	....	512,300	00
1899	....	425,346	00
1900	....	426,420	00
1901	....	347,263	00
1902	....	381,578	00
1903	....	284,304	00
1904	....	532,231	00
1905	....	467,566	00
1906	....	556,574	00

\$6,563,637 88

## FRESNO COUNTY.

1894	....	\$12,902	00
1895	....	52,049	00
1896	....	85,884	60
1897	....	114,334	00
1898	....	201,057	00
1899	....	497,234	00
1900	....	609,847	00
1901	....	480,696	00
1902	....	670,058	00
1903	....	848,628	00
1904	....	1,570,847	00
1905	....	2,734,164	00
1906	....	2,135,046	00

\$10,012,746 60

## HUMBOLDT COUNTY.

1894	....	\$247,779	86
1895	....	356,221	20
1896	....	308,546	85
1897	....	290,551	00
1898	....	357,288	00
1899	....	235,274	00
1900	....	118,827	00
1901	....	108,425	00
1902	....	79,555	00
1903	....	49,316	00
1904	....	83,551	00
1905	....	53,628	00
1906	....	57,780	00

\$2,346,742 91

## INYO COUNTY.

1894	....	\$327,076	91
1895	....	464,409	51
1896	....	497,626	48
1897	....	339,079	00
1898	....	434,766	00
1899	....	473,851	00
1900	....	430,589	00
1901	....	668,618	00
1902	....	184,414	00
1903	....	139,563	00
1904	....	169,918	00
1905	....	222,596	00
1906	....	50,264	00

\$4,402,770 90

## KERN COUNTY.

1894	....	\$587,960	91
1895	....	342,078	59
1896	....	710,010	35
1897	....	931,604	00
1898	....	1,129,573	00
1899	....	1,027,366	00
1900	....	1,867,856	00
1901	....	2,423,918	00
1902	....	3,481,926	00
1903	....	4,957,602	00
1904	....	5,319,630	00
1905	....	4,912,095	00
1906	....	5,417,828	00

\$33,109,447 85

## KINGS COUNTY.

1894	....	-----	
1895	....	-----	
1896	....	-----	
1897	....	-----	
1898	....	\$8,450	00
1899	....	11,550	00
1900	....	5,000	00
1901	....	5,000	00
1902	....	19,000	00
1903	....	24,200	00
1904	....	23,300	00
1905	....	33,000	00
1906	....	20,000	00

\$149,500 00

## LAKE COUNTY.

1894	....	\$382,954	00
1895	....	507,074	00
1896	....	264,944	00
1897	....	211,131	00
1898	....	102,096	00
1899	....	204,103	00
1900	....	172,745	00
1901	....	331,684	00
1902	....	288,231	00
1903	....	294,018	00
1904	....	330,719	00
1905	....	271,437	00
1906	....	198,909	00

\$3,560,045 00

## LASSEN COUNTY.

1894	....	-----	
1895	....	-----	
1896	....	\$35,283	00
1897	....	25,000	00
1898	....	40,300	00
1899	....	49,950	00
1900	....	37,760	00
1901	....	28,898	00
1902	....	20,483	00
1903	....	6,100	00
1904	....	23,654	00
1905	....	92,305	00
1906	....	118,508	00

\$478,241 00



# VALUE OF MINERAL PRODUCTS BY COUNTIES FOR THIRTEEN YEARS.

## LOS ANGELES COUNTY.

1894	.....	\$716,705 00
1895	.....	1,076,717 00
1896	.....	1,072,738 55
1897	.....	1,646,574 00
1898	.....	1,732,357 00
1899	.....	1,729,964 00
1900	.....	2,155,198 00
1901	.....	1,642,591 00
1902	.....	1,697,932 00
1903	.....	2,549,128 00
1904	.....	2,529,694 00
1905	.....	2,234,354 00
1906	.....	2,345,202 00
		\$23,129,154 55

## MADERA COUNTY.

1894	.....	\$199,465 60
1895	.....	211,985 74
1896	.....	186,904 84
1897	.....	124,427 00
1898	.....	147,907 00
1899	.....	115,620 00
1900	.....	268,467 00
1901	.....	400,825 00
1902	.....	121,151 00
1903	.....	489,525 00
1904	.....	178,974 00
1905	.....	183,987 00
1906	.....	199,314 00
		\$2,828,553 18

## MARIN COUNTY.

1894	.....	\$189,350 00
1895	.....	157,790 00
1896	.....	93,260 00
1897	.....	96,200 00
1898	.....	67,800 00
1899	.....	81,150 00
1900	.....	202,500 00
1901	.....	128,227 00
1902	.....	206,600 00
1903	.....	218,427 00
1904	.....	302,995 00
1905	.....	207,835 00
1906	.....	252,600 00
		\$2,204,734 00

## MARIPOSA COUNTY.

1894	.....	\$153,746 26
1895	.....	216,629 46
1896	.....	335,817 44
1897	.....	452,087 00
1898	.....	337,411 00
1899	.....	565,636 00
1900	.....	171,516 00
1901	.....	542,975 00
1902	.....	647,298 00
1903	.....	552,516 00
1904	.....	434,076 00
1905	.....	393,592 00
1906	.....	369,771 00
		\$5,173,071 16

## MENDOCINO COUNTY.

1894	.....	
1895	.....	\$150 00
1896	.....	
1897	.....	
1898	.....	3,330 00
1899	.....	8,788 00
1900	.....	8,448 00
1901	.....	10,720 00
1902	.....	9,898 00
1903	.....	20,580 00
1904	.....	15,195 00
1905	.....	24,510 00
1906	.....	14,819 00
		\$116,438 00

## MERCED COUNTY.

1894	.....	\$762 50
1895	.....	1,500 00
1896	.....	1,250 00
1897	.....	
1898	.....	
1899	.....	
1900	.....	
1901	.....	12,453 00
1902	.....	1,656 00
1903	.....	780 00
1904	.....	1,135 00
1905	.....	3,500 00
1906	.....	6,000 00
		\$29,036 50

## MONO COUNTY.

1894	.....	\$371,873 58
1895	.....	648,527 31
1896	.....	562,042 31
1897	.....	598,480 00
1898	.....	519,421 00
1899	.....	749,556 00
1900	.....	752,121 00
1901	.....	522,911 00
1902	.....	549,295 00
1903	.....	360,024 00
1904	.....	272,735 00
1905	.....	320,124 00
1906	.....	351,849 00
		\$6,578,962 20

## MONTEREY COUNTY.

1894	.....	\$9,500 00
1895	.....	
1896	.....	1,000 00
1897	.....	2,200 00
1898	.....	19,115 00
1899	.....	17,378 00
1900	.....	19,175 00
1901	.....	50,169 00
1902	.....	39,253 00
1903	.....	51,436 00
1904	.....	43,041 00
1905	.....	23,121 00
1906	.....	64,153 00
		\$339,541 00

# VALUE OF MINERAL PRODUCTS BY COUNTIES FOR THIRTEEN YEARS.

## NAPA COUNTY.

1894	\$351,527 00
1895	489,200 00
1896	495,366 00
1897	555,372 00
1898	555,966 00
1899	701,416 00
1900	493,100 00
1901	516,388 00
1902	410,968 00
1903	896,848 00
1904	308,433 00
1905	261,910 00
1906	180,147 00
	\$6,216,641 00

## NEVADA COUNTY.

1894	\$1,843,965 31
1895	1,795,791 16
1896	2,392,160 42
1897	1,895,567 00
1898	2,072,604 00
1899	2,231,898 00
1900	1,916,899 00
1901	2,145,840 00
1902	2,155,839 00
1903	2,466,044 00
1904	3,145,254 00
1905	3,214,828 00
1906	2,691,939 00
	\$29,968,628 89

## ORANGE COUNTY.

1894	\$6,000 00
1895	4,144 00
1896	-----
1897	12,000 00
1898	65,600 00
1899	112,077 00
1900	259,174 00
1901	187,341 00
1902	824,742 00
1903	1,029,435 00
1904	1,153,742 00
1905	738,264 00
1906	1,220,400 00
	\$5,612,919 00

## PLACER COUNTY.

1894	\$1,946,578 89
1895	1,677,527 32
1896	1,735,750 55
1897	1,578,637 00
1898	1,535,525 00
1899	1,177,812 00
1900	1,128,882 00
1901	1,025,184 00
1902	1,018,487 00
1903	800,985 00
1904	1,004,098 00
1905	798,644 00
1906	139,192 00
	\$15,567,302 76

## PLUMAS COUNTY.

1894	\$499,358 83
1895	603,222 57
1896	462,609 61
1897	339,953 00
1898	369,609 00
1899	381,166 00
1900	369,379 00
1901	403,832 00
1902	381,203 00
1903	424,894 00
1904	270,903 00
1905	284,497 00
1906	230,460 00
	\$5,021,087 01

## RIVERSIDE COUNTY.

1894	\$160,956 50
1895	378,155 00
1896	355,598 00
1897	188,022 00
1898	247,022 00
1899	272,848 00
1900	285,112 00
1901	316,608 00
1902	334,622 00
1903	446,449 00
1904	583,386 00
1905	558,369 00
1906	350,673 00
	\$4,477,820 50

## SACRAMENTO COUNTY.

1894	\$126,576 00
1895	211,497 75
1896	189,268 00
1897	201,663 00
1898	131,438 00
1899	233,755 00
1900	259,439 00
1901	302,882 00
1902	555,138 00
1903	506,796 00
1904	515,123 00
1905	881,852 00
1906	1,171,258 00
	\$5,286,685 75

## SAN BENITO COUNTY.

1894	\$86,285 00
1895	104,250 00
1896	91,095 00
1897	158,423 00
1898	212,585 00
1899	290,495 00
1900	205,650 00
1901	255,219 00
1902	328,231 00
1903	367,851 00
1904	332,972 00
1905	360,145 00
1906	289,029 00
	\$3,082,230 00

# VALUE OF MINERAL PRODUCTS BY COUNTIES FOR THIRTEEN YEARS.

## SAN BERNARDINO COUNTY.

1894	.....	\$1,099,643	67
1895	.....	1,114,863	30
1896	.....	1,003,889	80
1897	.....	1,312,780	00
1898	.....	1,644,152	00
1899	.....	1,859,351	00
1900	.....	1,965,143	00
1901	.....	1,844,239	00
1902	.....	3,308,002	00
1903	.....	1,516,618	00
1904	.....	922,034	00
1905	.....	820,026	00
1906	.....	623,414	00

\$19,034,155 77

## SAN DIEGO COUNTY.

1894	.....	\$323,222	33
1895	.....	386,407	57
1896	.....	603,991	00
1897	.....	626,568	00
1898	.....	694,418	00
1899	.....	381,215	00
1900	.....	402,061	00
1901	.....	514,522	00
1902	.....	562,730	00
1903	.....	663,315	00
1904	.....	727,540	00
1905	.....	231,945	00
1906	.....	384,388	00

\$6,502,322 90

## SAN FRANCISCO COUNTY.

1894	....	\$296,889	00
1895	.....	379,696	00
1896	.....	322,667	00
1897	.....	114,717	00
1898	.....	129,595	00
1899	.....	275,694	00
1900	.....	58,400	00
1901	.....	156,947	00
1902	.....	395,100	00
1903	.....	802,786	00
1904	.....	700,131	00
1905	.....	456,042	00
1906	.....	175,039	00

\$4,263,703 00

## SAN JOAQUIN COUNTY.

1894	.....	\$75,893	00
1895	.....	102,800	00
1896	.....	120,157	00
1897	....	79,411	00
1898	.....	91,289	00
1899	.....	11,880	00
1900	.....	39,862	00
1901	....	80,456	00
1902	.....	70,598	00
1903	.....	44,489	00
1904	.....	92,635	00
1905	.....	146,915	00
1906	.....	104,615	00

\$1,161,000 00

## SAN LUIS OBISPO COUNTY.

1894	.....	\$72,685	00
1895	.....	81,320	00
1896	.....	37,271	00
1897	.....	28,016	00
1898	.....	84,267	00
1899	.....	68,548	00
1900	.....	85,626	00
1901	.....	116,083	00
1902	.....	200,391	00
1903	.....	257,416	00
1904	.....	259,246	00
1905	.....	189,592	00
1906	.....	172,396	00

\$1,652,857 00

## SAN MATEO COUNTY.

1894	.....		
1895	.....	\$5,000	00
1896	.....	2,500	00
1897	.....	40,000	00
1898	.....	77,000	00
1899	.....	58,225	00
1900	.....	16,500	00
1901	.....	15,725	00
1902	.....	330,745	00
1903	.....	252,500	00
1904	.....	238,802	00
1905	.....	203,936	00
1906	.....	223,743	00

\$1,464,676 00

## SANTA BARBARA COUNTY.

1894	.....	\$92,800	00
1895	.....	158,678	00
1896	.....	383,159	00
1897	.....	481,382	00
1898	.....	472,784	00
1899	.....	318,528	00
1900	.....	528,438	00
1901	.....	300,148	00
1902	.....	315,550	00
1903	.....	384,688	00
1904	.....	791,611	00
1905	.....	1,601,217	00
1906	.....	1,564,814	00

\$7,393,797 00

## SANTA CLARA COUNTY.

1894	.....	\$363,533	00
1895	.....	445,950	00
1896	.....	318,415	00
1897	.....	301,800	00
1898	.....	334,848	00
1899	.....	391,940	00
1900	.....	497,386	00
1901	.....	421,150	00
1902	.....	471,122	00
1903	.....	670,159	00
1904	.....	365,044	00
1905	.....	470,130	00
1906	.....	298,834	00

\$5,350,311 00

# VALUE OF MINERAL PRODUCTS BY COUNTIES FOR THIRTEEN YEARS.

## SANTA CRUZ COUNTY.

1894....	\$223,505 00
1895....	254,776 00
1896....	239,199 00
1897....	242,941 00
1898....	270,636 00
1899....	251,392 00
1900....	191,091 00
1901....	195,779 00
1902....	205,296 00
1903....	254,247 00
1904....	309,700 00
1905....	296,349 00
1906....	445,092 00
	\$3,380,003 00

## SHASTA COUNTY.

1894....	\$715,768 99
1895....	811,233 52
1896....	813,593 29
1897....	688,740 00
1898....	3,510,728 00
1899....	4,661,980 00
1900....	5,574,026 00
1901....	6,737,571 00
1902....	3,730,049 00
1903....	3,201,680 00
1904....	4,898,033 00
1905....	2,579,014 00
1906....	5,745,843 00
	\$43,668,259 80

## SIERRA COUNTY.

1894....	\$604,721 54
1895....	694,576 63
1896....	786,598 27
1897....	370,254 00
1898....	399,582 00
1899....	450,474 00
1900....	663,159 00
1901....	576,182 00
1902....	332,466 00
1903....	311,246 00
1904....	375,985 00
1905....	520,990 00
1906....	411,884 00
	\$6,498,118 44

## SISKIYOU COUNTY.

1894....	\$761,381 83
1895....	1,030,983 73
1896....	1,091,917 47
1897....	842,157 00
1898....	769,125 00
1899....	991,871 00
1900....	1,010,383 00
1901....	1,067,451 00
1902....	1,094,745 00
1903....	663,598 00
1904....	943,936 00
1905....	806,877 00
1906....	1,500 00
	\$11,075,926 03

## SOLANO COUNTY.

1894....	\$8,225 00
1895....	24,285 00
1896....	23,413 00
1897....	31,276 00
1898....	20,635 00
1899....	16,937 00
1900....	24,700 00
1901....	12,600 00
1902....	170,140 00
1903....	404,614 00
1904....	30,193 00
1905....	201,091 00
1906....	166,759 00
	\$1,134,868 00

## SONOMA COUNTY.

1894....	\$62,756 00
1895....	177,840 00
1896....	135,146 00
1897....	120,797 00
1898....	132,709 00
1899....	142,330 00
1900....	157,135 00
1901....	173,147 00
1902....	198,803 00
1903....	195,369 00
1904....	187,176 00
1905....	318,871 00
1906....	353,073 00
	\$2,355,152 00

## STANISLAUS COUNTY.

1894....	\$28,678 50
1895....	30,081 50
1896....	18,435 00
1897....	39,217 00
1898....	22,298 00
1899....	11,769 00
1900....	21,405 00
1901....	29,169 00
1902....	19,026 00
1903....	70,605 00
1904....	52,816 00
1905....	52,365 00
1906....	1,720 00
	\$397,585 00

## TEHAMA COUNTY.

1894....	\$12,680 00
1895....	11,525 00
1896....	475 00
1897....	2,400 00
1898....	9,400 00
1899....	19,800 00
1900....	2,200 00
1901....	6,000 00
1902....	3,500 00
1903....	7,000 00
1904....	3,500 00
1905....	9,000 00
1906....	9,600 00
	\$97,080 00



# VALUE OF MINERAL PRODUCTS BY COUNTIES FOR THIRTEEN YEARS.

## TRINITY COUNTY.

1894....	\$1,017,990 84
1895....	1,305,412 41
1896....	1,435,365 30
1897....	1,107,961 00
1898....	1,010,769 00
1899....	715,595 00
1900....	698,689 00
1901....	752,280 00
1902....	731,261 00
1903....	621,244 00
1904....	579,088 00
1905....	708,255 00
1906....	570,013 00
	\$11,253,925 55

## TUOLUMNE COUNTY.

1894....	\$548,520 22
1895....	667,066 77
1896....	1,070,470 13
1897....	1,811,268 00
1898....	1,757,735 00
1899....	1,650,880 00
1900....	1,659,258 00
1901....	1,710,171 00
1902....	1,830,329 00
1903....	1,791,056 00
1904....	1,615,320 00
1905....	1,389,774 00
1906....	1,106,230 00
	\$18,608,078 12

## YOLO COUNTY.

1894....	\$1,000 00
1895....	1,873 00
1896....	378 00
1897....	-----
1898....	384 00
1899....	384 00
1900....	1,760 00
1901....	2,300 00
1902....	450 00
1903....	144 00
1904....	720 00
1905....	200 00
1906....	204 00
	\$9,797 00

## UNAPPORTIONED.

1894....	\$348,632 57
1895....	395,340 00
1896....	380,200 00
1897....	1,974,230 00
1898....	219,990 00
1899....	485,803 00
1900....	1,406,893 00
1901....	33,280 00
1902....	73,619 00
1903....	377,783 00
1904....	3,410,794 00
1905....	3,491,523 00
1906....	6,189,217 00

\$18,787,212 57

## TULARE COUNTY.

1894....	\$10,000 00
1895....	18,820 00
1896....	25,752 00
1897....	22,544 00
1898....	15,900 00
1899....	20,810 00
1900....	21,566 00
1901....	69,526 00
1902....	62,398 00
1903....	41,175 00
1904....	36,200 00
1905....	32,313 00
1906....	230,810 00
	\$607,814 00

## VENTURA COUNTY.

1894....	\$372,622 00
1895....	264,624 00
1896....	292,800 00
1897....	368,282 00
1898....	654,063 00
1899....	613,450 00
1900....	476,161 00
1901....	350,570 00
1902....	483,986 00
1903....	714,766 00
1904....	546,837 00
1905....	345,093 00
1906....	205,942 00
	\$5,689,196 00

## YUBA COUNTY.

1894....	\$107,480 20
1895....	111,482 34
1896....	171,687 77
1897....	141,638 00
1898....	166,865 00
1899....	189,939 00
1900....	284,631 00
1901....	189,754 00
1902....	155,632 00
1903....	125,871 00
1904....	143,278 00
1905....	325,384 00
1906....	800 00
	\$2,114,442 31

# SUMMARY BY COUNTIES—VALUE OF MINERAL PRODUCTS FOR THIRTEEN YEARS.

Alpine .....	\$50,670 00
Alameda .....	6,908,317 00
Amador .....	22,811,540 23
Butte .....	15,131,323 91
Calaveras .....	25,531,490 46
Colusa .....	1,511,565 00
Contra Costa .....	1,692,592 00
Del Norte .....	121,352 00
El Dorado .....	6,563,637 88
Fresno .....	10,012,746 60
Humboldt .....	2,346,742 91
Inyo .....	4,402,770 90
Kern .....	33,109,447 85
Kings .....	149,500 00
Lake .....	3,560,045 00
Lassen .....	478,241 00
Los Angeles .....	23,129,154 55
Madera .....	2,828,553 18
Marin .....	2,204,734 00

Mariposa .....	\$5,173,071 16
Mendocino .....	116,438 00
Merced .....	29,036 50
Mono .....	6,578,962 20
Monterey .....	339,541 00
Napa .....	6,216,641 00
Nevada .....	29,968,628 89
Orange .....	5,612,919 00
Placer .....	15,567,302 76
Plumas .....	5,021,087 01
Riverside .....	4,477,820 50
Sacramento .....	5,286,685 75
San Benito .....	3,082,230 00
San Bernardino .....	19,034,155 77
San Diego .....	6,502,322 90
San Francisco .....	4,263,703 00
San Joaquin .....	1,161,000 00
San Luis Obispo .....	1,652,857 00
San Mateo .....	1,464,676 00

Santa Barbara .....	\$7,393,797 00
Santa Clara .....	5,350,311 00
Santa Cruz .....	3,380,003 00
Shasta .....	43,668,259 80
Sierra .....	6,498,118 44
Siskiyou .....	11,075,926 03
Solano .....	1,134,868 00
Sonoma .....	2,355,152 00
Stanislaus .....	397,585 00
Tehama .....	97,080 00
Trinity .....	11,253,925 55
Tulare .....	607,814 00
Tuolumne .....	18,608,078 12
Ventura .....	5,689,196 00
Yolo .....	9,797 00
Yuba .....	2,114,442 31
Unapportioned ...	18,787,212 57
Total .....	\$422,515,068 73



RELIEF MAP OF

# CALIFORNIA

BY

N. F. DRAKE

Department of Geology,  
Stanford University.

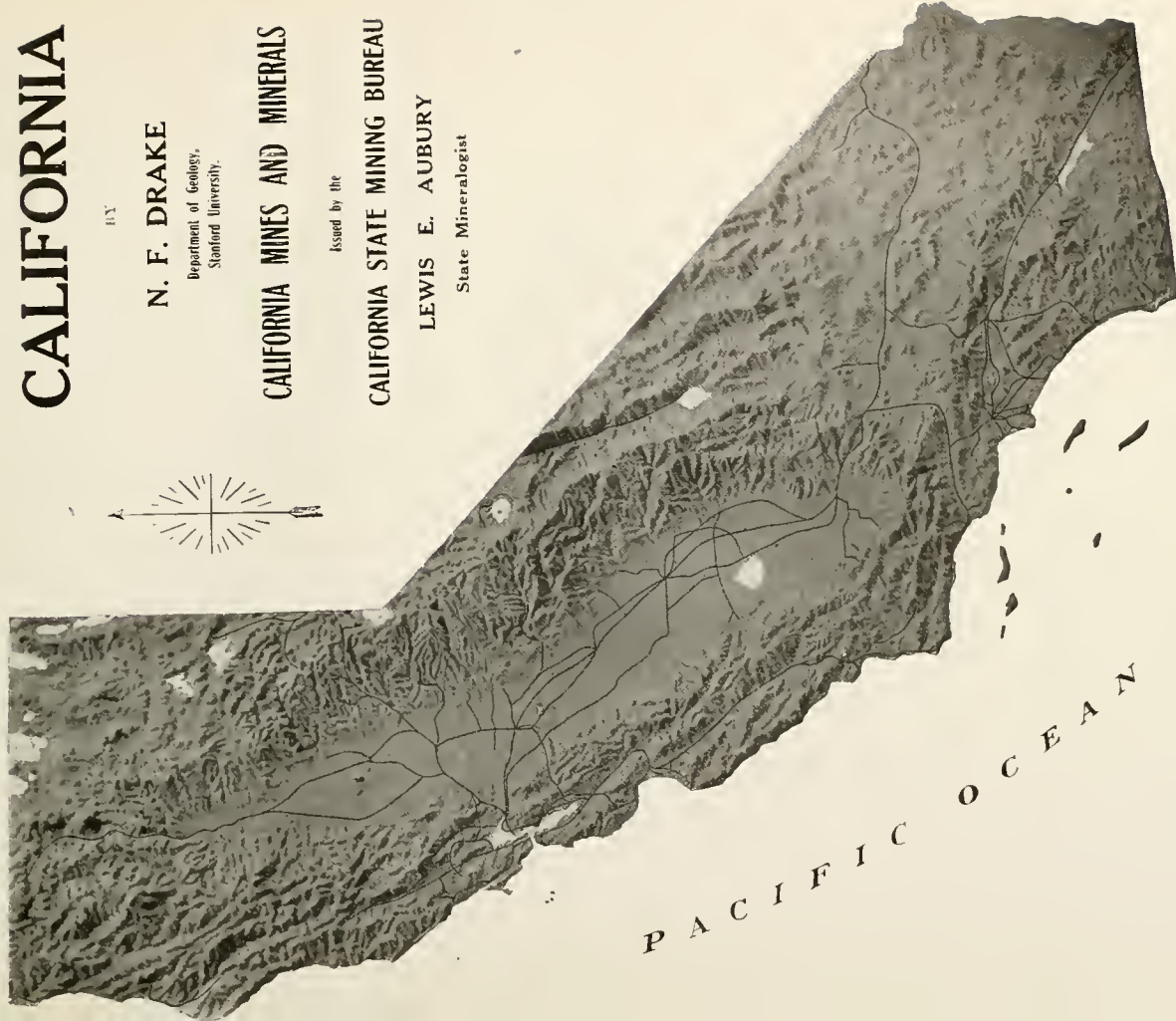
CALIFORNIA MINES AND MINERALS

Issued by the

CALIFORNIA STATE MINING BUREAU

LEWIS E. AUBURY

State Mineralogist

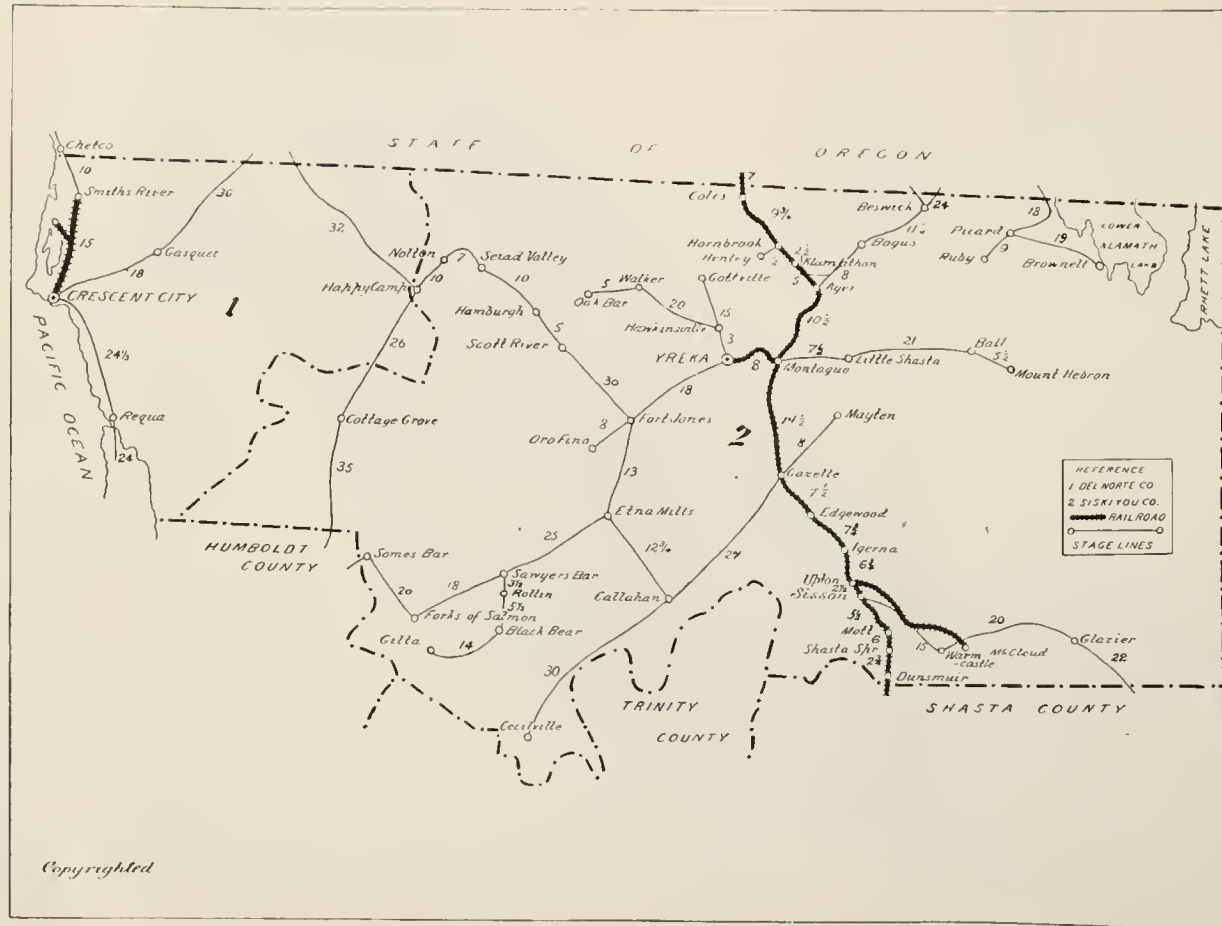


# DEL NORTE AND SISKIYOU COUNTIES.

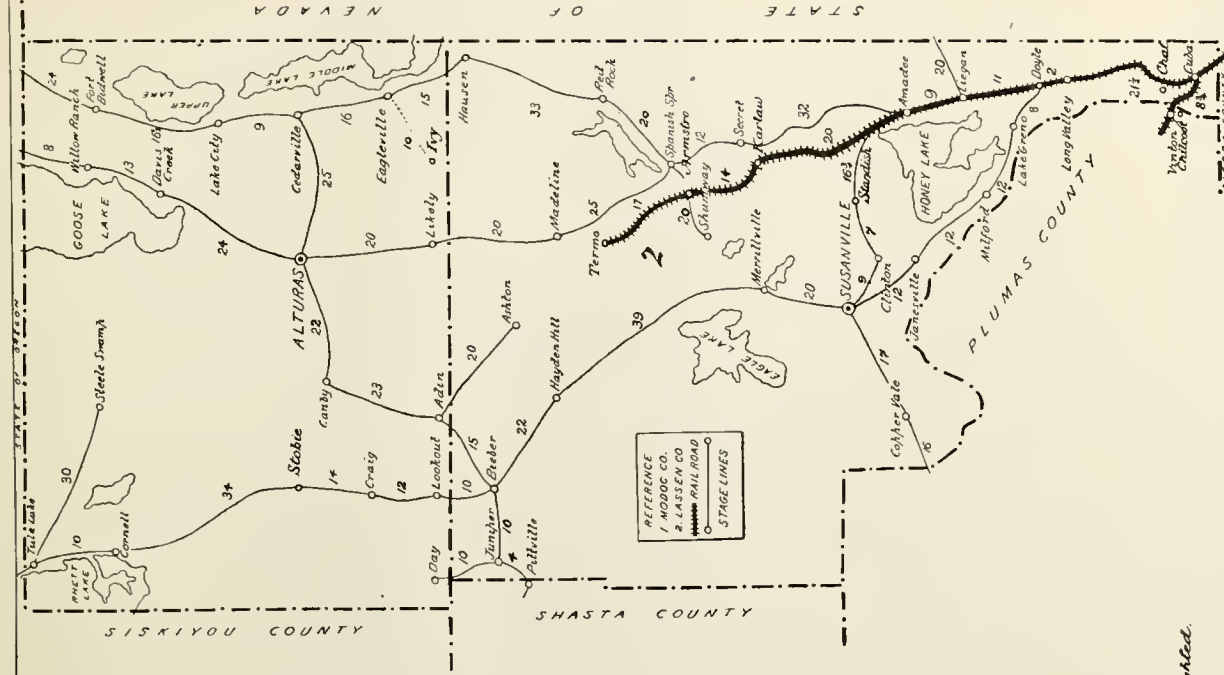
## The County Maps.

The County Maps in this pamphlet were drawn expressly for the Fireman's Fund Insurance Company of San Francisco, and are the work of Mr. Louis Weinmann, the secretary of the company. This company kindly loaned the original drawings of the maps to the California State Mining Bureau for making the plates of this little book. The maps are copyrighted and must not be reproduced without obtaining permission from the Fireman's Fund Insurance Company.

They show all towns, postoffices, railroads, county roads, stage lines carrying passengers, mail and express, and distances between points, forming a handy and useful guide, especially to all who wish to leave the railroad and penetrate to the interior of the mining districts.

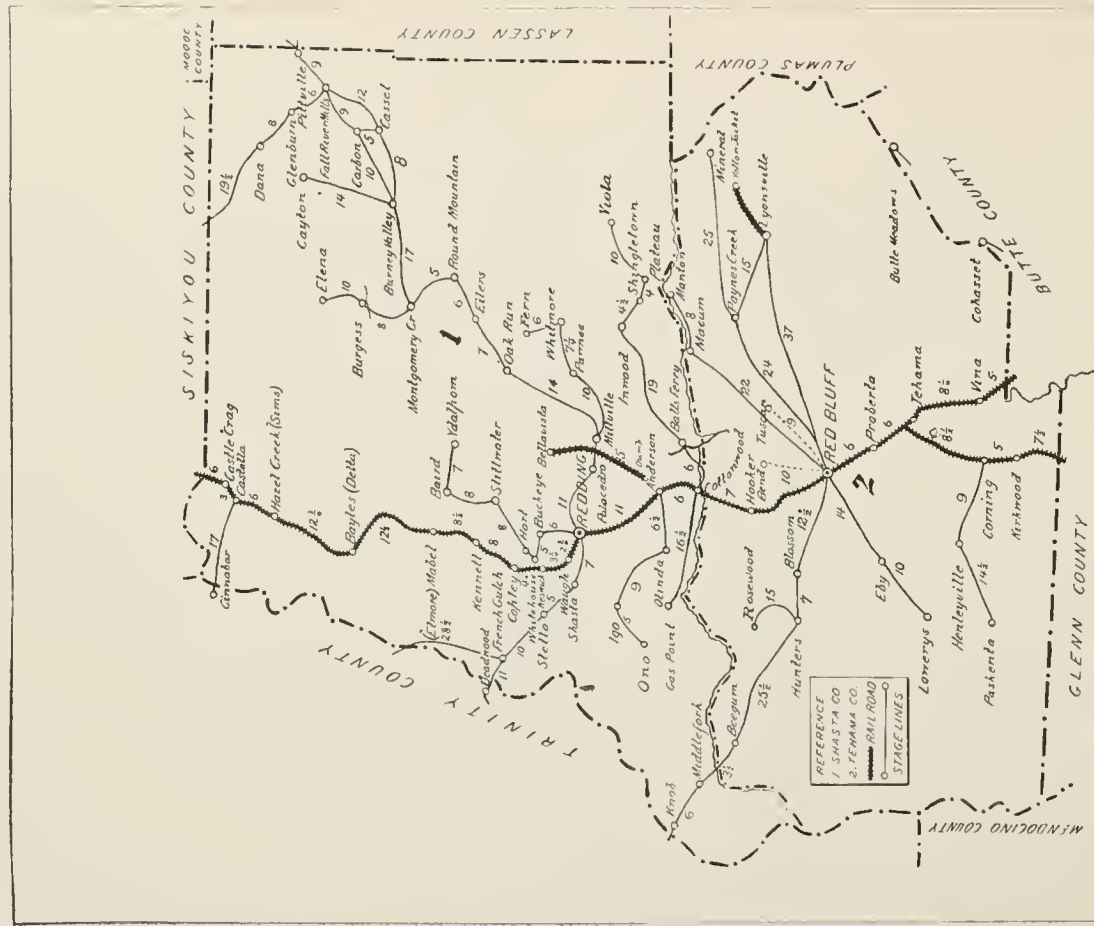


MODOC AND LASSEN COUNTIES.

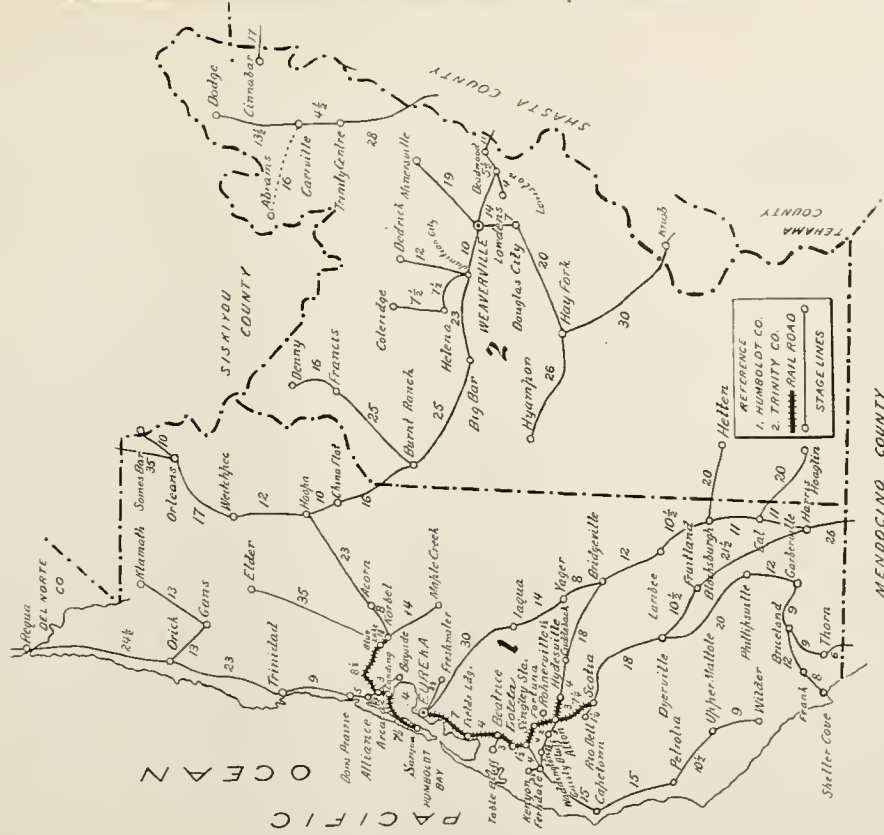


Copyrighted.

## SHASTA AND TEHAMA COUNTIES.



## HUMBOLDT AND TRINITY COUNTIES.



Copyrighted

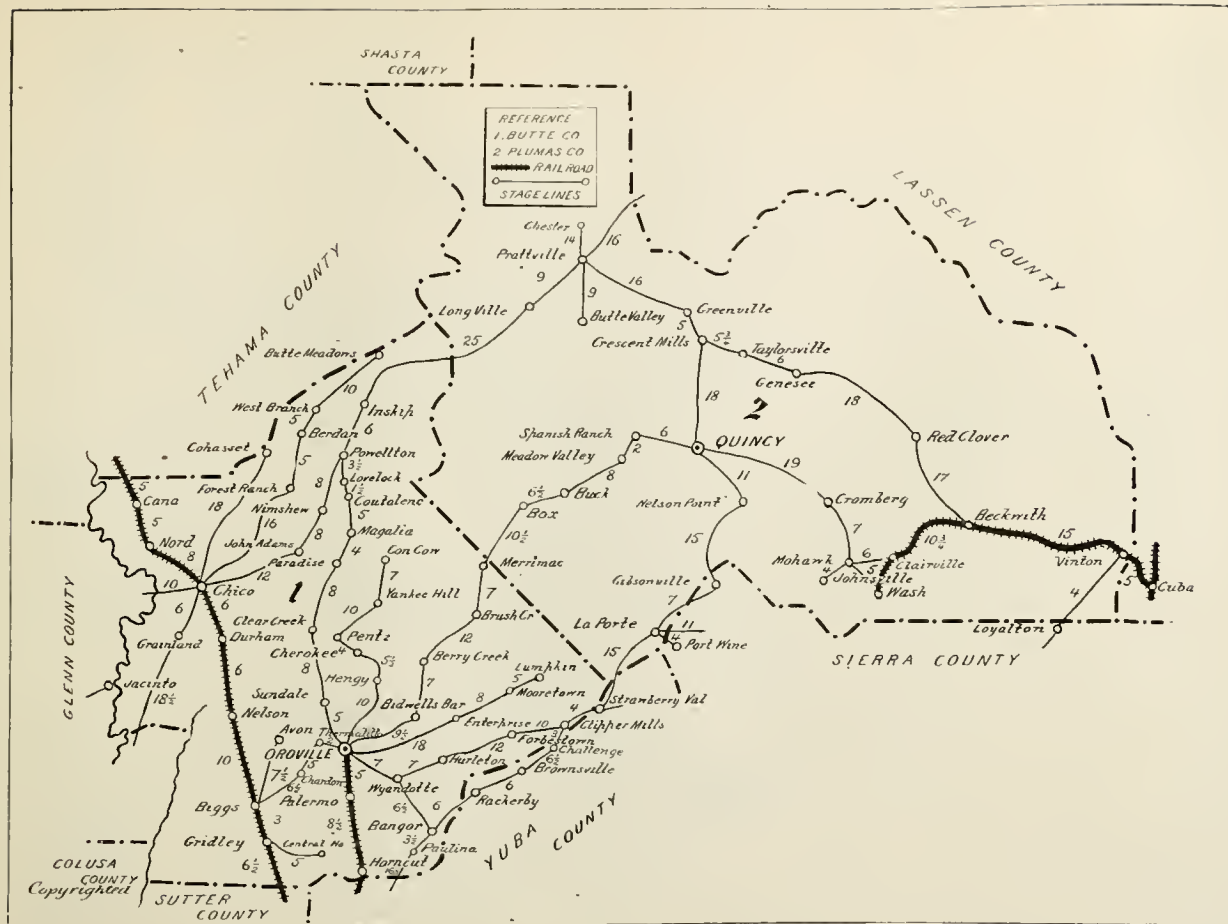
**REFERENCE**  
 1. MENDOCINO CO.  
 2. GLENN CO.  
 3. LAKE CO.  
 4. COLUSA CO.  
 — RAIL ROAD  
 - - - STAGE LINES

**Copyrighted**

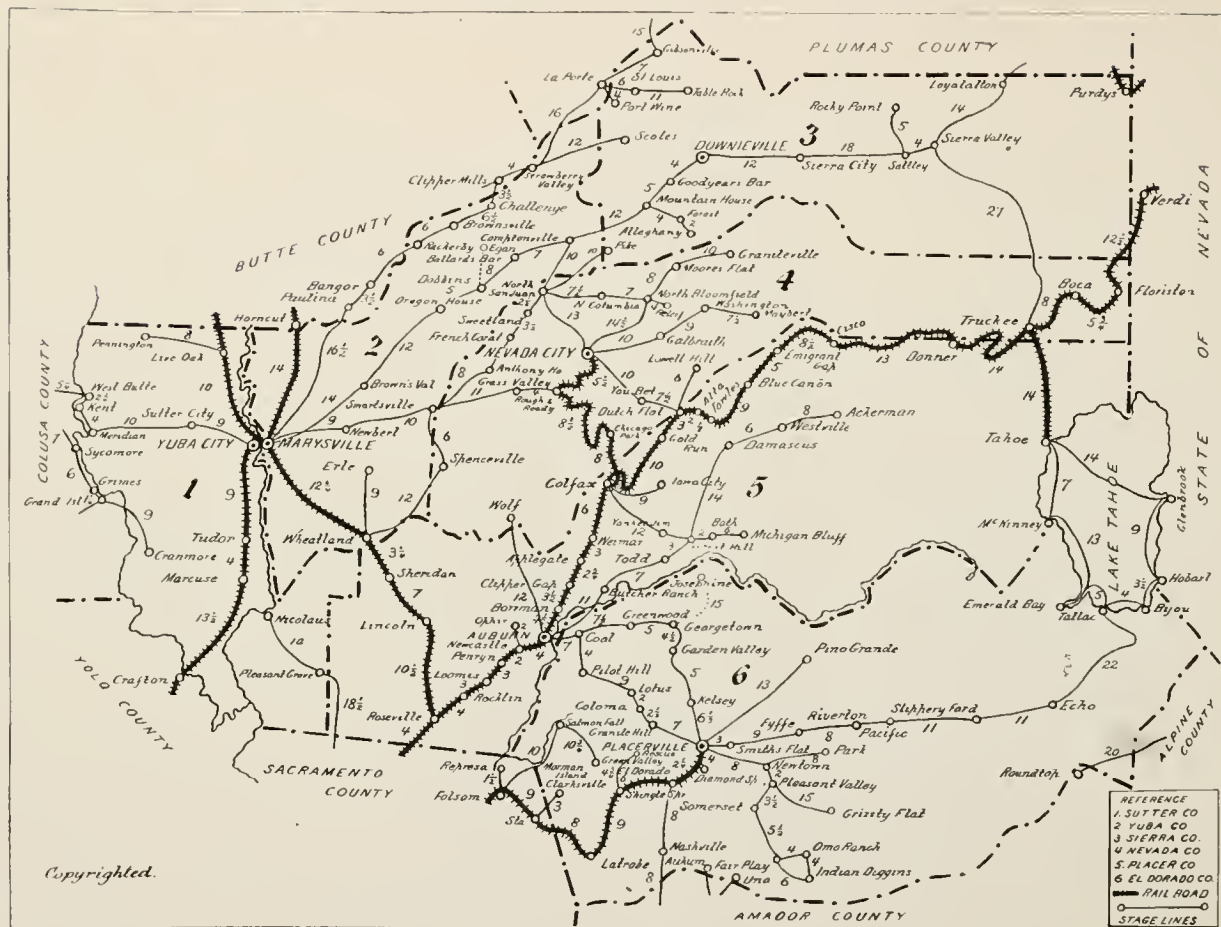
Copyrighted



## BUTTE AND PLUMAS COUNTIES.

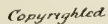


SUTTER, YUBA, SIERRA, NEVADA, PLACER, AND EL DORADO COUNTIES.



Copyrighted.

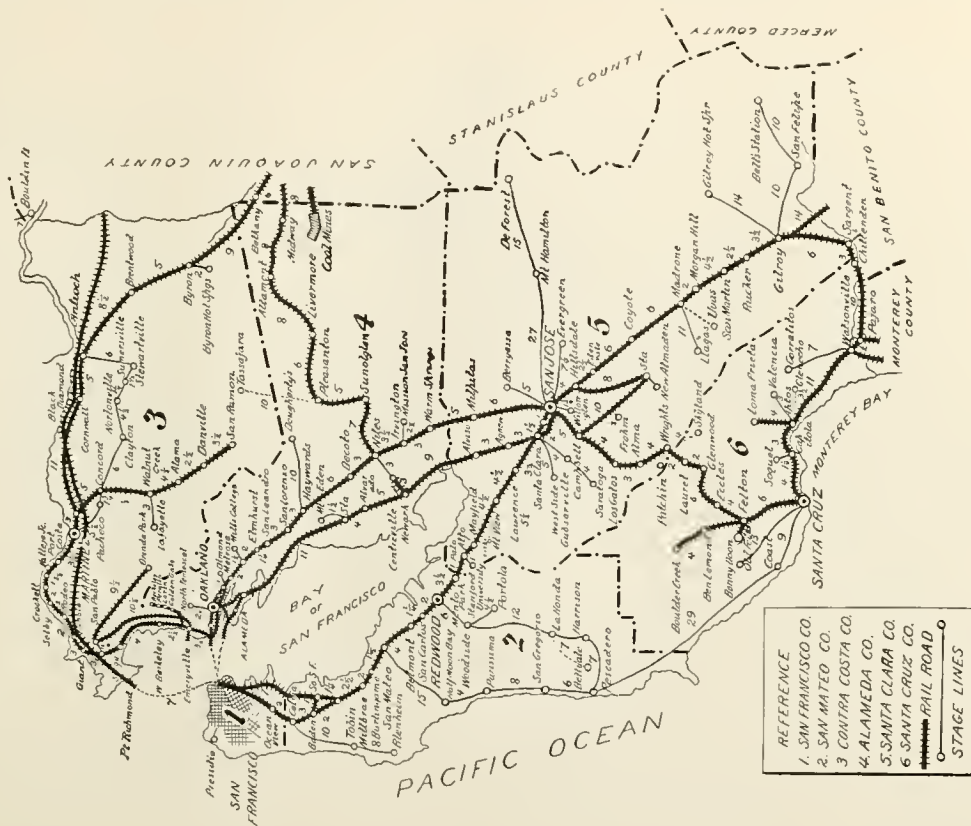
## SONOMA, MARIN, NAPA, YOLO, AND SOLANO COUNTIES.



Copyrighted

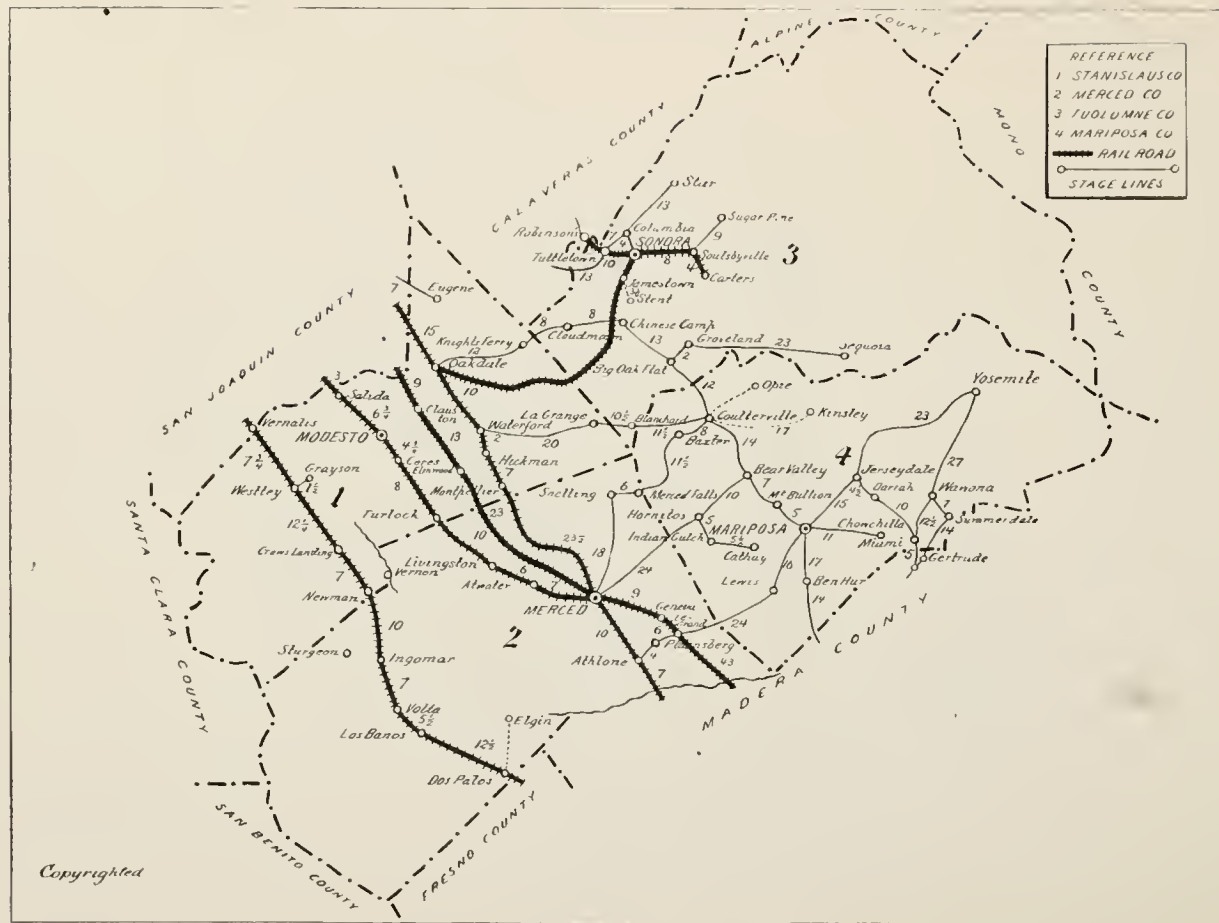
Copyrighted

SAN FRANCISCO, SAN MATEO, CONTRA COSTA, ALAMEDA, SANTA CLARA, AND SANTA CRUZ COUNTIES.



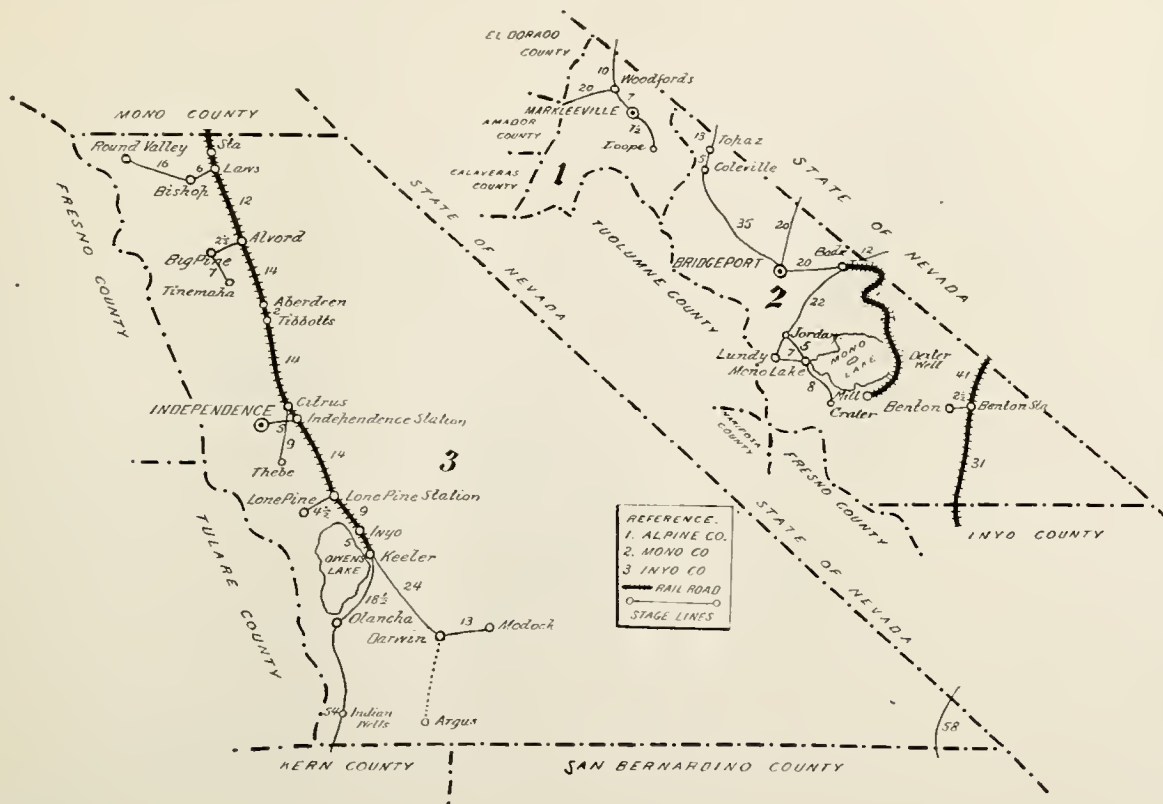
Copyrighted.

STANISLAUS, MERCED, TUOLUMNE, AND MARIPOSA COUNTIES.





## ALPINE, MONO, AND INYO COUNTIES.



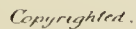
Copyrighted

# MONTEREY AND SAN BENITO COUNTIES.

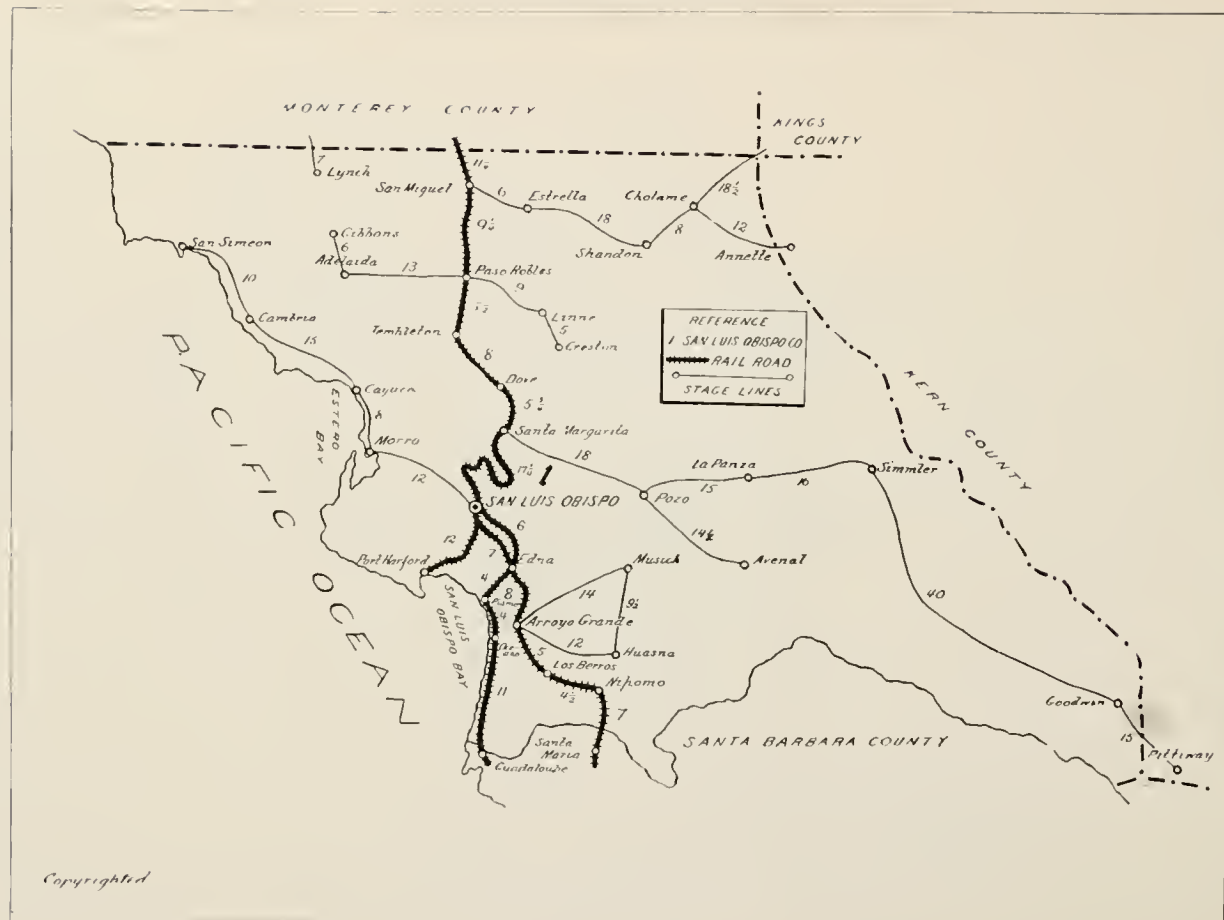


Copyrighted

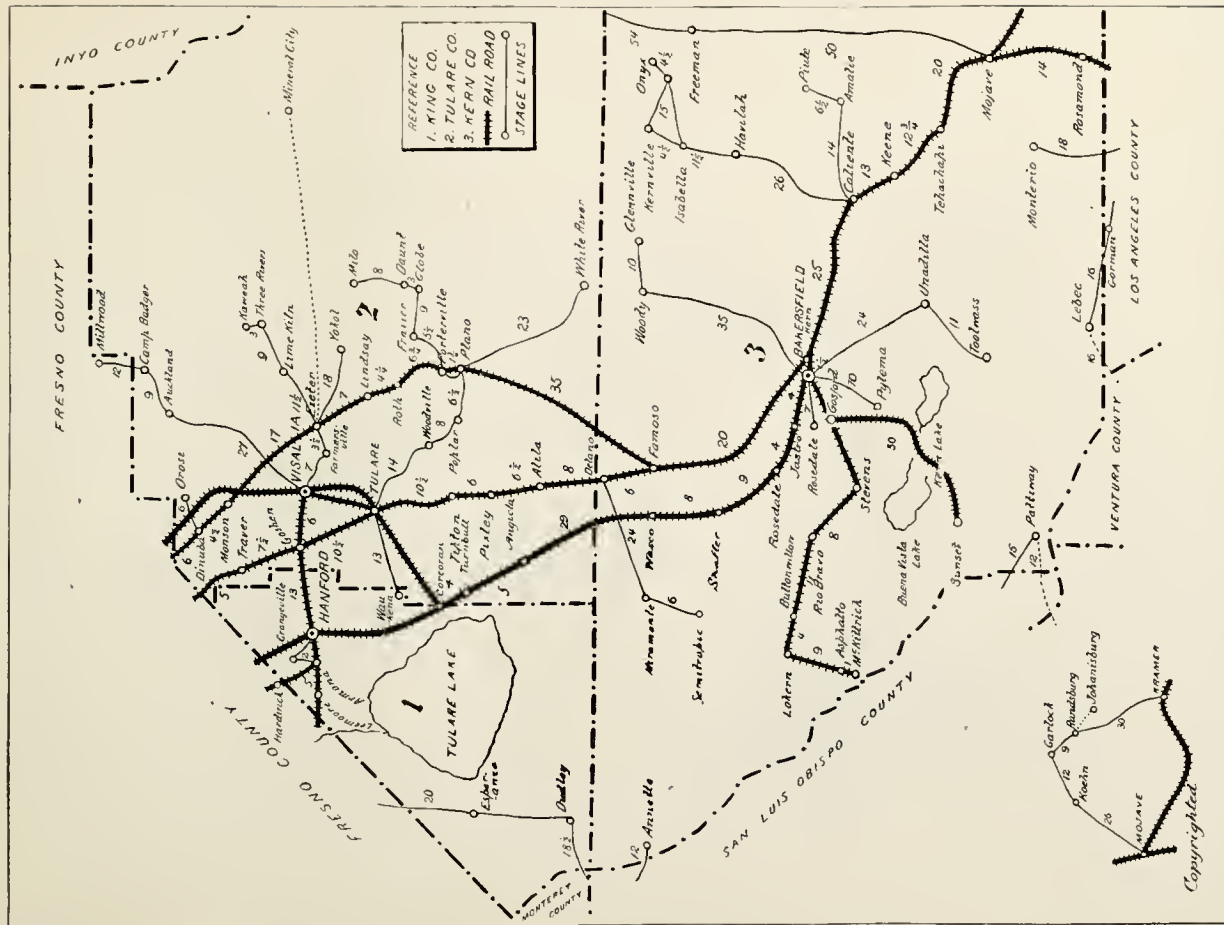
## MADERA AND FRESNO COUNTIES.



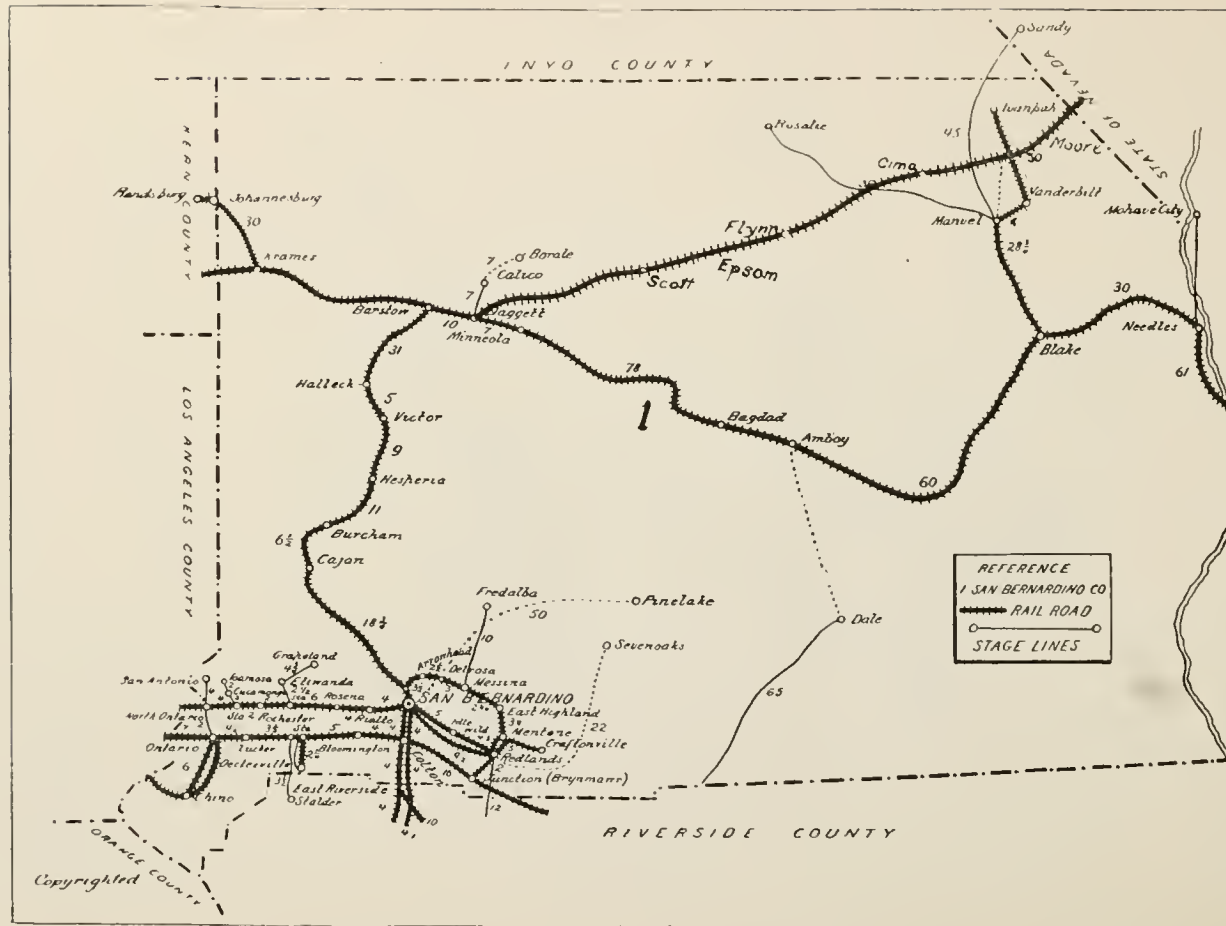
# SAN LUIS OBISPO COUNTY.



# KINGS, TULARE, AND KERN COUNTIES.

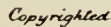


## INYO COUNTY

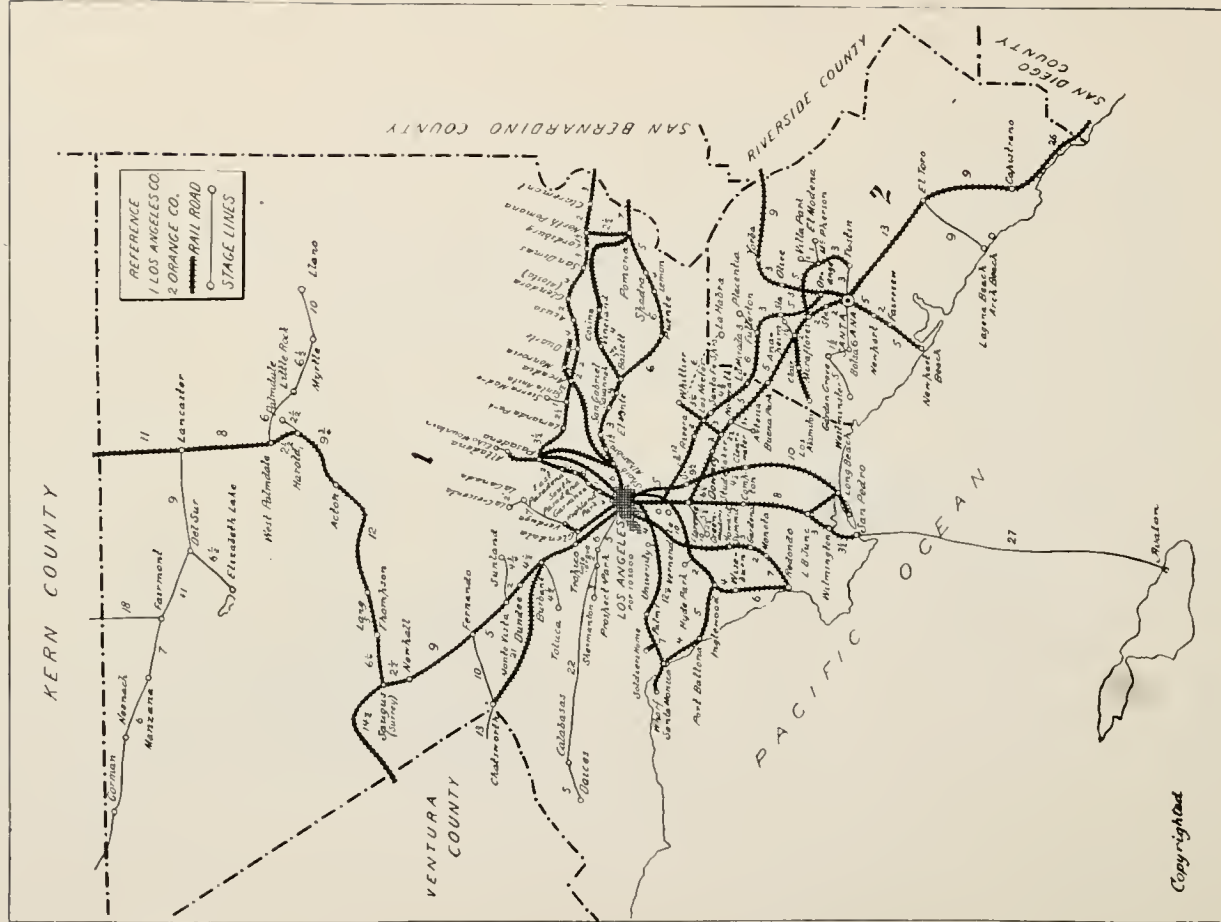




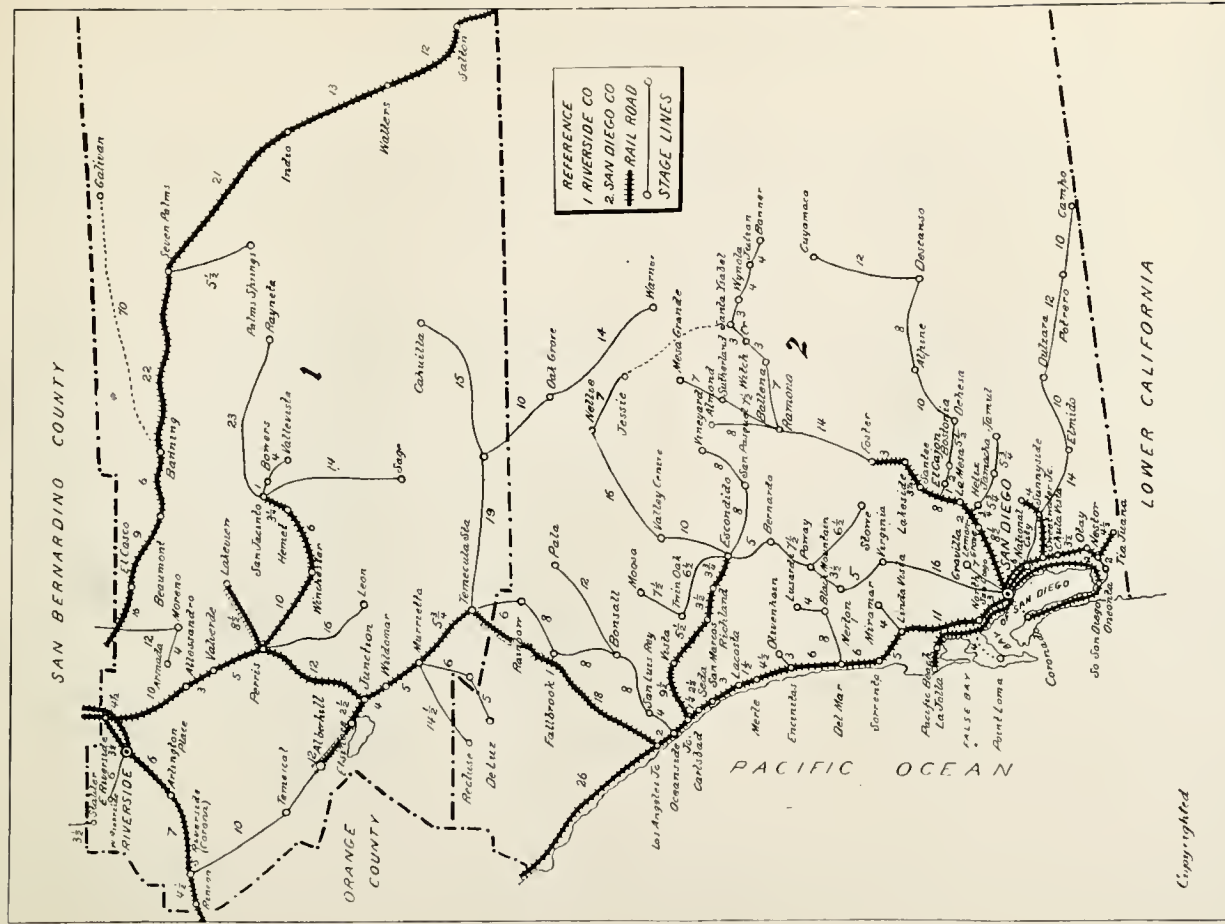
SANTA BARBARA AND VENTURA COUNTIES.



## LOS ANGELES AND ORANGE COUNTIES.



**RIVERSIDE AND SAN DIEGO COUNTIES.**



Copyrighted

# LIST OF PUBLICATIONS OF THE CALIFORNIA STATE MINING BUREAU.

FERRY BUILDING, SAN FRANCISCO, CAL.

Publications of this Bureau will be sent on receipt of the requisite amount and postage. Only stamps, coin, or money orders will be accepted in payment. Do not send personal checks.

Address all communications regarding publications to Librarian. *All publications not mentioned are exhausted.*

Under Section 8, amendment to the Mining Bureau Act, approved March 10, 1903, your attention is respectfully called to that portion of the amendment which states: "The Board (Board of Trustees) is hereby empowered to fix a price upon, and to dispose of to the public, at such prices, any and all publications of the Bureau, including reports, bulletins, maps, registers, etc. The sum derived from such disposition must be accounted for and used as a revolving printing and publishing fund for other reports, bulletins, maps, registers, etc. The prices fixed must approximate the actual cost of printing and issuing the respective reports, bulletins, maps, registers, etc., without reference to the cost of obtaining and preparing the information embraced therein."

	PRICE.	POSTAGE.
Report XI—1892, First Biennial .....	\$1.00	\$0.15
Report XIII—1896, Third Biennial .....	1.00	.20
Bulletin No. 6—"Gold Mill Practices in California" (3d ed.) .....	.50	.04
Bulletin No. 9—"Mine Drainage, Pumps, Etc.," Bound .....	.60	.08
Bulletin No. 15—"Map of Oil City Oil Fields, Fresno County, California" .....	.05	.02
Bulletin No. 23—"Copper Resources of California" .....	.50	.12
Bulletin No. 24—"Saline Deposits of California" .....	.50	.10
Bulletin No. 27—"Quicksilver Resources of California" .....	.75	.08
Bulletin No. 30—"Bibliography Relating to the Geology, Paleontology and Mineral Resources of California," including List of Maps .....	.50	.10
Bulletin No. 31—"Chemical Analysis of California Petroleum" .....	..	.02
Bulletin No. 32—"Production and Use of California Petroleum" .....	.75	.08
Bulletin No. 36—"Gold Dredging in California" (2d ed.) .....	.50	.08
Bulletin No. 37—"Gems and Jewelers' Materials of California" (2d ed.) .....	.50	.08
Bulletin No. 38—"Structural and Industrial Materials of California" .....	.75	.20
Bulletin No. 42—"Mineral Production of California"—1905 .....	..	.02
Bulletin No. 43—"Mineral Production of California for Nineteen Years" .....	..	.02
Bulletin No. 45—"Auriferous Black Sands of California" .....	.10	.02
Bulletin No. 46—"Index of Mining Bureau Publications" .....	.30	.06
Bulletin No. 47—"Mineral Production of California"—1906 .....	..	.02
Bulletin No. 48—"Mineral Production of California for 20 Years" .....	..	.02
Bulletin No. 49—"Mines and Minerals of California" .....	..	.02
Gold Production of California from 1848 to 1907 .....	..	.02
California Mine Bell Signals (Cardboard) .....	.05	.02

	PRICE.	POSTAGE.
California Mine Bell Signals (Paper) .....	\$0.03	\$0.02
Gold Production in California from 1848 to 1906 .....	..	.02
Register of Mines, with map, Amador County .....	.25	.08
Register of Mines, with map, Butte County .....	.25	.08
Register of Mines, with map, El Dorado County .....	.25	.08
Register of Mines, with map, Inyo County .....	.25	.08
Register of Mines, with map, Kern County .....	.25	.08
Register of Mines, with map, Lake County .....	.25	.08
Register of Mines, with map, Mariposa County .....	.25	.08
Register of Mines, with map, Nevada County .....	.25	.08
Register of Mines, with map, Placer County .....	.25	.08
Register of Mines, with map, San Bernardino County .....	.25	.08
Register of Mines, with map, San Diego County .....	.25	.08
Register of Mines, with map, Santa Barbara County .....	.25	.08
Register of Mines, with map, Shasta County .....	.25	.08
Register of Mines, with map, Sierra County .....	.25	.08
Register of Mines, with map, Siskiyou County .....	.25	.08
Register of Mines, with map, Trinity County .....	.25	.08
Register of Mines, with map, Tuolumne County .....	.25	.08
Register of Mines, with map, Yuba County .....	.25	.08
Register of Oil Wells, with map, Los Angeles City .....	.35	.02
Map of Mother Lode .....	.05	.02
Map of Desert Region of California .....	.10	.02
Map Showing Copper Deposits in California .....	.05	.02
Map of Calaveras County .....	.25	.03
Map of Plumas County .....	.25	.03
Mineral and Relief Map of California .....	.25	.05
Map of Forest Reserves in California (Mounted) .....	.50	.08
Map of Forest Reserves in California (Unmounted) .....	.30	.06

## IN PREPARATION:

Map and Register of Madera County.

Bulletin—Revised edition "Copper Resources of California."

Samples (limited to three at one time) of any mineral found in the State may be sent to the Bureau for identification, and the same will be classified free of charge. *No samples will be determined if received from points outside the State.* It must be understood, that *no assays, or quantitative determinations, will be made.* Samples should be in a lump form if possible, and marked plainly with name of sender outside of package, postoffice address, etc. No samples will be received unless charges are prepaid. A letter should accompany sample, and a stamp should be enclosed for reply.

Address all Samples and communications regarding Samples to Laboratory.

**LAW RELATING TO MISREPRESENTATIONS OF MINES BY ANY OFFICER OF A CORPORATION  
TRANSACTIONING BUSINESS IN CALIFORNIA. APPROVED MARCH 22, 1905.**

SECTION 1. Any superintendent, director, secretary, manager, agent, or other officer, of any corporation formed or existing under the laws of this State, or transacting business in the same, and any person pretending or holding himself out as such superintendent, director, secretary, manager, agent or other officer, who shall willfully subscribe, sign, endorse, verify, or otherwise assent to the publication, either generally or privately, to the stockholders or other persons dealing with such corporation or its stock, any untrue or willfully and fraudulently exaggerated report, prospectus, account, statement of operations, values, business, profits, expenditures or prospects, or other paper or document intended to produce or give, or having a tendency to produce or give, to the shares of stock in such corporation a greater value or less apparent or market value than they really possess, or with the intention of defrauding any particular person or persons, or the public, or persons generally, shall be deemed guilty of a felony, and on conviction thereof shall be punished by imprisonment in State prison, or a county jail, not exceeding two years, or by fine not exceeding five thousand dollars, or by both.

SEC. 2. All acts and parts of acts in conflict with this act are hereby repealed.

**THIS BOOK IS DUE ON THE LAST DATE  
STAMPED BELOW**

**AN INITIAL FINE OF 25 CENTS**

WILL BE ASSESSED FOR FAILURE TO RETURN THIS BOOK  
ON THE DATE DUE. THE PENALTY WILL INCREASE TO  
50 CENTS ON THE FOURTH DAY AND TO \$1.00 ON THE  
SEVENTH DAY OVERDUE.



GAYLAMOUNT  
PAMPHLET BINDER

~  
Manufactured by  
GAYLORD BROS. Inc.  
Syracuse, N.Y.  
Stockton, Calif.

Call Number:

164905

California. Dept. of  
natural resources. Div  
of mines.

TN24

C3

A3

no. 19

PHYSICAL  
SCIENCES  
LIBRARY

TN24

C3

A3

no. 19

UNIVERSITY OF CALIFORNIA, DAVIS



3 1175 01777 0325

LIBRARY  
UNIVERSITY OF CALIFORNIA  
DAVIS

164905

